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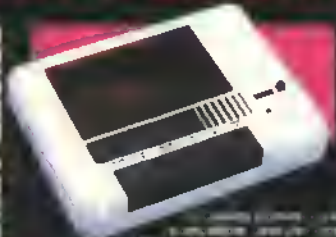
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ISSUE 12
NOVEMBER
1993

COMMODORE FORCE

FULL

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LET'S
GO!

They're here
— take a
peep at our
exclusive
review of
Lemmings, in all



REGULARS!

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WHAT'S
HAPPENING?

Not much actually! How
about a little sing-song
instead—tra la la.

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MANGRAM'S
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The highest letters this side
of the Atlantic—plus other
letters.

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It's better with a side order of strategy we bring you the month's most remarkable offerings wrapped in Apple's name. These books if a sometimes are more like gifts they find you for it that is usually, we're adding as well.

Zoids
 Popping Skynet and T3 — here's the most recent of the marauders. A creature is at driving, without hardly any ability, just a few lookers, and...

ALIENS

Alien 3
James Cameron's sequel
to Ridley Scott's first
film, which was
critically and
commercially
successful.

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Polysomnographic monitoring

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1. **Introduction**

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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Figure 1. The effect of the concentration of the solution on the adsorption of the dye. The concentration of the solution was 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 15.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0, 150.0, 200.0, 300.0, 400.0, 500.0, 600.0, 700.0, 800.0, 900.0, 1000.0, 1500.0, 2000.0, 3000.0, 4000.0, 5000.0, 6000.0, 7000.0, 8000.0, 9000.0, 10000.0, 15000.0, 20000.0, 30000.0, 40000.0, 50000.0, 60000.0, 70000.0, 80000.0, 90000.0, 100000.0, 150000.0, 200000.0, 300000.0, 400000.0, 500000.0, 600000.0, 700000.0, 800000.0, 900000.0, 1000000.0, 1500000.0, 2000000.0, 3000000.0, 4000000.0, 5000000.0, 6000000.0, 7000000.0, 8000000.0, 9000000.0, 10000000.0, 15000000.0, 20000000.0, 30000000.0, 40000000.0, 50000000.0, 60000000.0, 70000000.0, 80000000.0, 90000000.0, 100000000.0, 150000000.0, 200000000.0, 300000000.0, 400000000.0, 500000000.0, 600000000.0, 700000000.0, 800000000.0, 900000000.0, 1000000000.0, 1500000000.0, 2000000000.0, 3000000000.0, 4000000000.0, 5000000000.0, 6000000000.0, 7000000000.0, 8000000000.0, 9000000000.0, 10000000000.0, 15000000000.0, 20000000000.0, 30000000000.0, 40000000000.0, 50000000000.0, 60000000000.0, 70000000000.0, 80000000000.0, 90000000000.0, 100000000000.0, 150000000000.0, 200000000000.0, 300000000000.0, 400000000000.0, 500000000000.0, 600000000000.0, 700000000000.0, 800000000000.0, 900000000000.0, 1000000000000.0, 1500000000000.0, 2000000000000.0, 3000000000000.0, 4000000000000.0, 5000000000000.0, 6000000000000.0, 7000000000000.0, 8000000000000.0, 9000000000000.0, 10000000000000.0, 15000000000000.0, 20000000000000.0, 30000000000000.0, 40000000000000.0, 50000000000000.0, 60000000000000.0, 70000000000000.0, 80000000000000.0, 90000000000000.0, 100000000000000.0, 150000000000000.0, 200000000000000.0, 300000000000000.0, 400000000000000.0, 500000000000000.0, 600000000000000.0, 700000000000000.0, 800000000000000.0, 900000000000000.0, 1000000000000000.0, 1500000000000000.0, 2000000000000000.0, 3000000000000000.0, 4000000000000000.0, 5000000000000000.0, 6000000000000000.0, 7000000000000000.0, 8000000000000000.0, 9000000000000000.0, 10000000000000000.0, 15000000000000000.0, 20000000000000000.0, 30000000000000000.0, 40000000000000000.0, 50000000000000000.0, 60000000000000000.0, 70000000000000000.0, 80000000000000000.0, 90000000000000000.0, 100000000000000000.0, 150000000000000000.0, 200000000000000000.0, 300000000000000000.0, 400000000000000000.0, 500000000000000000.0, 600000000000000000.0, 700000000000000000.0, 800000000000000000.0, 900000000000000000.0, 1000000000000000000.0, 1500000000000000000.0, 2000000000000000000.0, 3000000000000000000.0, 4000000000000000000.0, 5000000000000000000.0, 6000000000000000000.0, 7000000000000000000.0, 8000000000000000000.0, 9000000000000000000.0, 10000000000000000000.0, 15000000000000000000.0, 20000000000000000000.0, 30000000000000000000.0, 40000000000000000000.0, 50000000000000000000.0, 60000000000000000000.0, 70000000000000000000.0, 80000000000000000000.0, 90000000000000000000.0, 100000000000000000000.0, 150000000000000000000.0, 200000000000000000000.0, 300000000000000000000.0, 400000000000000000000.0, 500000000000000000000.0, 600000000000000000000.0, 700000000000000000000.0, 800000000000000000000.0, 900000000000000000000.0, 1000000000000000000000.0, 1500000000000000000000.0, 2000000000000000000000.0, 3000000000000000000000.0, 4000000000000000000000.0, 5000000000000000000000.0, 6000000000000000000000.0, 7000000000000000000000.0, 8000000000000000000000.0, 9000000000000000000000.0, 10000000000000000000000.0, 15000000000000000000000.0, 20000000000000000000000.0, 30000000000000000000000.0, 40000000000000000000000.0, 50000000000000000000000.0, 60000000000000000000000.0, 70000000000000000000000.0, 80000000000000000000000.0, 90000000000000000000000.0, 100000000000000000000000.0, 150000000000000000000000.0, 200000000000000000000000.0, 300000000000000000000000.0, 400000000000000000000000.0, 500000000000000000000000.0, 600000000000000000000000.0, 700000000000000000000000.0, 800000000000000000000000.0, 900000000000000000000000.0, 10000000

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Arcade? Puzzle? Strategy? we defy anyone to categorise *E-Motion*, but one thing we do know — it's sure got to be simple, at least in concept. It contains a number of spheres, the idea being to launch a circular ship around it like coloured balls together, and make them disappear. Clear the way on to the next. Simple. Should two balls of different colours come together, a small explosion

E-MOTION

1. MAIN VIEW

The game world through the eyes of your current character.



which can be collected for extra energy. Fail to collect it quickly enough however, and it expands to become another ball — double trouble! Then there's the time limit. Balls vibrate, slowly at first, but take too long on a screen and they explode draining energy. The faster they pulse, the closer they are to critical mass. To make things tougher still, on some levels you'll find barriers, balls linked

together with elastic, and sometimes even connected to your craft.

There's even a nice two player option for some good, old fashioned co-operation.

So don't think you're going to be able to sit down and play straight through this one — it's hard, and just feel that inertia.



DEALS ON REELS!

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CONTROLS

■ Control is by joystick or keyboard as follows.

Keys	Player 1	Player 2
Left	A	K
Right	S	L
Forward	Space	Return
Fire		X



MAYHEM IN MONSTERLAND

— Playable Demo

pex's gorgeous platform romp has had us clamouring for the 64 this month and, not wanting you to feel left out, here's a cut down section of level three to drool over. The actual level will be much bigger, and that's BIG. You start the game in 'sad' mode. The aim's to collect as many bags of magic dust as possible then enter the exit (!?) where you're greeted by a friendly dragon, before re-emerging into the now-happy land. Most nasties can be killed by leaping on their heads but watch out — you don't know where they might be hiding. Should you discover the 'lightning' power-up on the Happy stage, pressing fire while running at speed will make Maytem charge. But enough of this bantle, get on and play it and see why we're all so excited. Oh, and dig the amazing introductory sequences.



ACTION

3. STATUS

Strength and fitness of character.

2. CHARACTER

Your selected team member.

4. AMMO

Number of rounds remaining in the selected character's weapon.

5. ROOM

The number of the room in which character is currently residing.

6. BIO-MONITOR BAR

Green means the character is okay, yellow he's (or she's) captured by aliens, red and he's (or, again, she's) impregnated —

dead meat. The stamina bar shows how much energy's remaining. Movement requires energy so rest characters intermittently or they become exhausted and unable to move.

7. CREDIT POINTS

The potential reward for successful completion of your mission.

■ Beau Jolly

The game of the trif movie takes up the story just as a team of marines land in the alien-infested remains of an Earth colony, way off in deep space. You're in command and must direct your squad around the base from the relative safety of the Mobile Tactical Operations Bay (MTOB) in the personnel carrier that brought you here. You have six people at your disposal: Ripley, Gorman, Hicks, Bishop, Vasquez and Burke. To select a character press the key of their initial e.g. 'R' for Ripley except for Bishop who's selected with '4'.

The main area of the screen represents a video image from a shoulder-mounted camera of the selected character. This means you see exactly what each character sees. A cross-hair gunsight is moved by the joystick. You can destroy various terminals as well as blasting through locked doors. To enter a door, position the sight over it and press space.

To direct a character to move independently through up to nine rooms, press a number between one and nine then a direction (N, S, E or W) then select someone else.

Pause the action by pressing 'P' and to restart tap 'P' twice, 'M' aborts the game.

ALIENS



Below — Uh oh! Looks like some one bit the big one. Game over man, game over!



THE AIM

Your mission's to rid the complex of Alien vermin and maximise your credit points. Learn how to get your people working as team and things'll be a whole lot easier. Right, let's move out marines!

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MAGAZINES

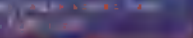
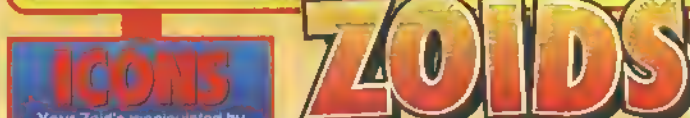
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THE ACTION

TALENT	ALB	00	00
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For them, a freak meteor storm wiped out all life on Zoidstar, leaving only machinos. Without anyone to lead them, the struggles on Zoidstar became even more ferocious.

To combat this mighty new threat, the warring 'Blue Zoids' joined forces and constructed Zoidzilla to be their leader. Caught by surprise however, the Blue Zoids were soon overrun.

Unfortunately during the descent, Earthman's ship was destroyed. He managed to escape but Zoldzilla was blown to pieces. These were quickly collected by Red Zoids and hidden in heavily defended city domes. Now you, as Earthman, must locate the eight pieces of Zoldzilla and rebuild him before taking on Radoin.

Figure 1. The proposed model of the relationship between the variables.

EASY LIVES

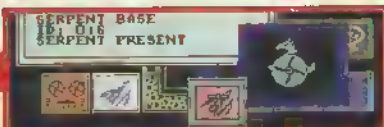
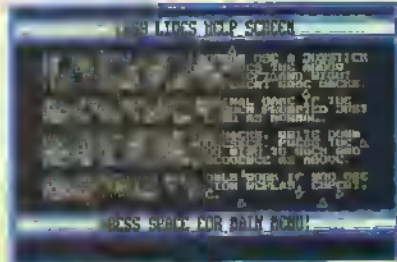
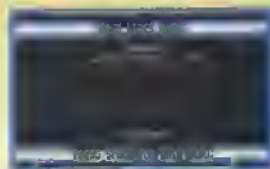
different and a person having received 97% and a ZZAPI Gold Medal Award in its time, we're confident you'll love it to little pieces...

BY JOVE

Neil Mallett

[illegible]

Yup, it's Jon Wells again with another superb helping of load-'em-up hacks. This month, Jon's hacked... erm, Miles? What did Jon hack? You don't mean I've sent the disk off to be mastered at Ablex without writing down what Jon's included this month? But it's late at night! I can't possibly phone him now — he'll be fucked up in bed with his leddy bear! What am I going to write instead? I'll have to bluff. What? Write what I've just said? But that'd be a right con-out? Quickly — I'll write it and



CONTROLS

Click on the map screen and a window pops up. The blue square represents your Zoid, yellow markers are buildings and red ones are enemy Zoids. Clicking on a 'foreign' object brings up the targeting window for whichever weapon is currently selected. Clicking on the blue square goes into navigation mode. Rotate the while arrow with joystick left/right and fire to move off in that direction.

All actual game actions are controlled by joystick, with additional key functions as follows:

Toggle between music and FX
Pause
Restart
Abort game and return to start

GET A PIECE OF THE ACTION

■ If you've written a game you reckon's real good, why not share it with 64ers the world over. **COMMODORE FORCE** is read by countless thousands across the globe, and it's covertapes loaded by equally numerous people. To get your creation into the public eye fill in this form and send it 'A Piece Of The Action' at the usual address.

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■ Please sign this declaration:

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Signed..... Date.....

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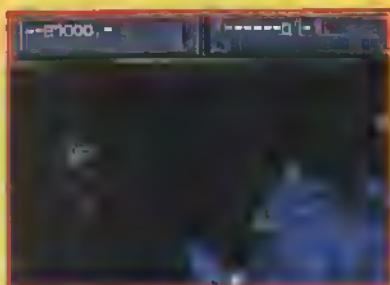
BACK TO THE PART FIVE.

The year 1989 was a big year for C64 software, and no mistake. The quality of most releases was generally very high, a few real classics made their way onto the shelves, and the word 'licensed' meant more to the software industry than it ever had before. Come to think of it, a mystery prize is available to the first person who can tell us how many times I've had to use the words 'licensed', 'coin-op' or 'conversion' throughout this feature. Answers are posted to the usual address please...



Despite predictions that the C64 was on its way out, 1989 saw booming trade in both licensed and original software. Conversions — previously a very hit-and-miss affair — were increasing in both quantity and quality. Imageworks' C64 version of the moderately popular *Blasterooids* coin-op was a more-than-adequate rendition, but, like so many of its kind, lacked the 'oomph' you expect from a computer

game. An update of the classic *Asteroids* (hence the name), it offered two-player action and collectables, as well as the traditional rock-pulping, screen-spinning gameplay. But could it be described as a good-value buy at full price? Most arcade machines can tempt a few coins from



● **Blasterooids** — Fun but ultimately limited update of an age-old formula.

Individuals' pockets, but there aren't many that entice nine pounds' worth. *Blasterooids* received a favourable 83% rating from ZZAP! subsequent to its release, and narrowly squeezed into last month's Top 100 due to its (admittedly excellent) two-player option. I'd have rated it a lot lower — it's ideal budget fodder, but there's really not that much to it. Not for £8.99, anyway...

From the well-meant to the ridiculous, *Firebird's* *Dynamic Duo* stank. Badly. Putting you in control of a bird and a dwarf in two playing areas (with the screen split horizontally to make these), this early attempt at using the technique so successful in, say, *Lotus*, was an unmitigated disaster. Lacking any real gameplay, it was condemned by horrified reviewers and, I trust, consumers alike. Why on earth *Firebird* actually

released it is beyond us, but most surprisingly of all is that it was released in a year that saw *Ocean* bring us the classic *Rainbow Islands* and *New Zealand Story*, among others.

Winning Streak

As far as C64 software's concerned, 1989 was *Ocean's* best-ever year, with only a few 'hiccupps' — *Rambo 3* and *Red Heat*. *Rambo 3* was a mixture of gamestyles, including a *Gauntlet*-style runaround and an *Operation Wolf*-type shoot-'em-up section. The plan-view areas were overly tedious, and the absence of any level codes meant that getting to the mildly-addictive blasting level was hard going. All in all, it was a very average outing — unlike the diabolical *Red Heat*. A tie-in with the

Schwarzenegger film of the same name, it owed



Blasterooids

Imageworks' C64 version of the classic Asteroids game

Dynamic Duo

Firebird's C64 version of the classic Asteroids game

New Zealand Story

Ocean's C64 version of the classic Asteroids game

Rainbow Islands

Ocean's C64 version of the classic Asteroids game

Red Heat

Ocean's C64 version of the classic Asteroids game

Altered Beast

Activision's C64 version of the classic Asteroids game

Imageworks

Firebird

Ocean

Ocean

Ocean

Activision

83% 70% 4/10

19% 8% 4/10

93% 93% 3/10

92% 97% 7/10

65% 27% 1/10

73% 62% 4/10

FEATURE!

1989

more than a passing nod to *Kung Fu Master*, the ancient beat-'em-up. Its main original point was that to accommodate the large size of its sprites, the bottom half of their bodies were missing. The resulting wide-screen film-reel-type display was,



● A fire movie tie-in, *Red Heat* caught the film's spirit unwittingly well.

though graphically competent, devoid of any gameplay. Move, duck, punch... and embrace the tedium, baby! If I remember rightly, it was programmed by Special FX — the otherwise excellent development house responsible for classics such as *Midnight Resistance*. Oh well — I suppose everyone has their bad days...

On an altogether more positive note, *Rainbow Islands* turned out to be the most utterly, utterly brilliant coin-op conversion ever. Converted by the multi-talented

Graftgold team, it was proof indeed that the C64 could, to a certain extent, compete with the Amiga — its rendition was almost as good as its 16-bit counterpart. Even the chirpy-cheerful souped-up version of 'Somewhere Over The Rainbow' that accompanied the action was excellent. Arriving in the same

month as *Islands* was the absolutely superb but-not-quite-as-good-as-*RI* licencee, *New Zealand Story*. It too was sickeningly cute, and with a plethora of fluffy kiwis to boot.

On a more violent note, Ocean took the supposedly unconvertable *Operation Wolf...* and converted it.



The C64 version is almost as good as it could have been, lacking only the cabinet-mounted guns that made the original such a hit. *Renegade 3* was also released, bringing the *Renegade* series to an end in a functional manner. Whereas its predecessors had been all-out beat-

'em-ups, *Renegade 3* — *The Final Chapter* (to give it its full title) tried to go one further by adding jumping across spikes pits and the like. Bad move. Even

worse was the ridiculous array of enemies — dinosaurs, cavemen, Egyptian mummies and knights on hobby horses, among others. To round it all off, the entire game structure was supposedly justified by the addition of a laughable time-travel plot, which, on account of its most dire nature, I won't relate here. Suffice to say, these elements did few favours to the actual game. It played well enough, but with the lack of any real action and the one-move-kills-all syndrome present and accounted for, it just wasn't full-price material.

The List!

Hey hey hey, it's the rainbow of the year! You know how it works by now, so I won't waste time here goes: Game Name, Platform, Score, Reviewer's mark received, COMPIRE's mark received, and availability. (I'll be honest, I've only played a few of these, but I'll give you my best guess for the rest.)

Myth <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	System 3	94%	94%	4/10
Cabal <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	Ocean	89%	80%	2/10
Stunt Car Racer <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	Microstyle	94%	95%	5/10
Batman: The Movie <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	Ocean	96%	90%	4/10
Renegade 3 <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	Ocean	90%	56%	1/10
Silkworm <small>Amiga, Atari ST, Commodore 64, MS-DOS</small>	The Sales Curve	91%	80%	4/10

Like *Operation Wolf* viewed and played from a different perspective, *Cabal* wasn't the most successful arcade machine ever. It did make for frenetic C64 shoot-'em-up action, though, as players blasted their way through many single but very destructible screens. It was perhaps this ability to wipe out the scenery as well as your assailants that was *Cabal*'s true charm. A multiload

did rather put a

The Movie — again, a multi-section licence. Its best levels were platform-based, where Batman could be moved around using a unique 'rope' utility attached to his belt. Swinging from floor to floor was great fun, not to mention well executed. I've always felt it didn't flow as well as its less colourful Spectrum counterpart, but I'd better not go on about that, should I...

And of the rest...

As I've already mentioned, arcade conversions are usually substandard for one of three reasons — the conversion is beyond the machine's capabilities, such as *Hard Drivin'*, the coding's naff like *Cisco Heat*, or the original game wasn't up to much — *Altered Beast* being a classic example of this. A horizontally-scrolling beat-'em-up with very little beat, its main novelties were its two-player option and 'character changing'. By collecting three power-ups, the sprite would become a monster of some description, with each level providing a different one. Problem was, the tedium soon set in — with only a few moves and one level of play, each level was a little too similar to the last. Oh, it had a multiload too...

It may seem like all of 1989's memorable moments were conversions, but a few original gems did appear; *System 3*'s *Myth* was something else. With graphics that wouldn't look too out of place on a 16-bit machine, it took the basic platform game ideal and did wonders with it. Fighting demons, solving puzzles... It had it all. It also lacked the bugs that haunted its Amiga counterpart...

With, I'm sure, countless numbers of *Godzilla* movies in mind, *Gremlin* released *The Muncher* — a graphically-sound smash-'em-up where the player controlled a large *Godzilla*-type monster. Playing like a multidirectionally-scrolling *Rampage*, *The Muncher* combined big, bold graphics with large scale destruction. The result? A highly

playable — if a trifle awkward — game, sponsored by Chewits.

Codemasters' early venture into the full-price arena with *Rock Star* *Ate My Hamster* was amusing, to say the least. A

management game that required you to take your band (or solo artist) to the top of the charts, it was worth a chuckle or two the first time played, but thereafter... it just wasn't worth bothering with. The concept was simple; choose your characters, arrange them a few gigs, record a single, record an album. Once heard a few times, the tunes that accompanied this 'action' soon began to grate. Why *Codemasters* released it on their premier range label (*Codemasters Gold*, no less) is beyond me; suffice to say, it wasn't long before it was re-released at £3.99.

Mastertronic, no longer the budget giants they had been, re-released *Manic Miner*. A curious move, it scored highly with reviewers (95%, ZZAP! 64) if not buyers — while it will always be considered a classic by those caught by the computer bug in the early eighties, I doubt it enjoyed an astounding retail success. Did you know that it's actually a rip-off of an old Atari game *Miner 2025*? Well it is.

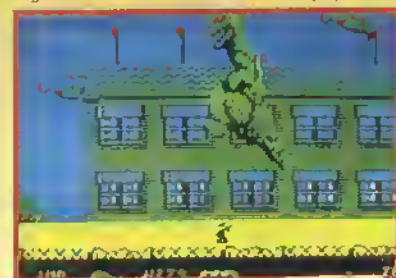
From the basic to the technically superb, *Microstyle*'s *Stunt Car Racer* was a marvellous example of programming expertise. Most race



● *Cabal* featured mindless blasting of the highest order. Chunky, macho and fun.

dampener on proceedings, but the disk version, lacking that problem, was very good.

Rounding off *Ocean*'s 1989 efforts were the film tie-ins *The Untouchables* and *Batman: The Movie*. *The Untouchables* was a late licence; the release of the game didn't catch the movie's critical (if not necessarily box-office) success. Nonetheless, its strength of design and playability were second to none — *Ocean*'s previous multi-section licences paled in comparison. With *Operation Wolf*-type (but better) sections, platform levels and much more, it was a delight to play as well as behold — it even followed the film's plot to a certain extent. Not quite as good but equally well received was *Batman*:



● With perhaps the biggest sprite in C64 history, *Muncher* was truly monstrous.



The Untouchables	<small>1989, Ocean, 100% C64</small>
Shinobi	<small>1989, Virgin, 95% C64</small>
APB	<small>1989, Virgin, 95% C64</small>
Xybots	<small>1989, Virgin, 95% C64</small>
The Muncher	<small>1989, Ocean, 95% C64</small>
Manic Miner	<small>1989, Mastertronic, 95% C64</small>

Ocean	96%	94%	3/10
Virgin	86%	80%	2/10
Domark	90%	76%	3/10
Domark	27%	17%	2/10
Gremlin	71%	70%	2/10
Mastertronic	95%	46%	1/10

96%	94%	3/10
86%	80%	2/10
90%	76%	3/10
27%	17%	2/10
71%	70%	2/10
95%	46%	1/10



games tend to provide the player with boring, thrill-free tracks: *Stunt Car Racer's* many courses owed more to roller coasters than Formula One, and to great effect. Its wireframe graphics were both smooth and fast — supposedly, vector graphics aren't! The C64's strong suit, but *Racer* proved they could be done, and done well.

Microstyle's parent company, Microprose (remember them?) also delivered a classic piece of C64 software in the form of *Microprose Soccer* — heard of it? For those who are interested, we should be holding the challenge next issue...

Domark's marketing



● The evergreen Microprose soccer included a novel indoor game as a bonus.

deal with Tengen hit both high and low points during the year. Their conversion of the classic *Xybots* coin-op left a lot to be desired — a poor quality Spectrum port, it lacked speed, colour and playability. The actual gameplay was so simple, it was unique: run around a maze searching for the exit, blasting various nasties and, if you so wished, have a friend join in for simultaneous split-screen action. However, everything was displayed in semi first-person 3D. The graphics were (or so I'm told) spntse- as opposed to wireframe-based (thus limiting the smoothness of movement), but the basic idea — and certainly the original coin-op's

execution of it — were sound. It's just a shame a little more time wasn't spent on making the



● Poor programming doomed *Xybots* to reside in the 'what might have been' file.

conversion worthwhile...

Following *Xybots* but managing to retain a great deal of its subject matter's charm was *APB*. This multidirectionally-scrolling plan-view car chase game was a huge success in the arcades, where its compulsive gameplay and humorous touches had endeared it to arcade goers. The conversion was far from perfect — the occasional bug reared its ugly head and the graphics were a little basic — but it was such an enjoyable concept that such drawbacks were easily ignored. It also lacked the Spectrum version's tendency to crash every two games — a benefit and a half, if you ask me.

One of Domark's other conversions was *Return of the Jedi* — a conversion of the coin-op of the film. The third (and so far last) in the *Star Wars* trilogy, the film lacked the oomph of its predecessors; a problem suffered equally by its arcade counterpart. Whereas *Star Wars* and *The Empire Strikes Back* had been wireframe-based shoot-'em-ups, *Jedi* was a *Zaxxon*-inspired diagonally-scrolling blaster. This little-used perspective has rarely been utilised in games of any value or consequence — even the otherwise-excellent *Costa Panyi* failed to do wonders with it in his *Highway Alien Encounter* games. As you'd expect, the conversion was flawed from the start — if there's not much in the original, how can a home computer version ever be anything more than mediocre? Oh, one more thing, fact fans. Did you know that David Lynch — of *Blue Velvet* and *Twin Peaks* fame — was originally asked to direct the *Return of the Jedi* film, an offer he refused? Just imagine what it would have been like if he'd said yes...

From Melbourne House came the sorry conversion of the excellent *Double Dragon* arcade machine. The original is, in my opinion, one of the best coin-ops ever released; its simple but brutal

gameplay and great two-player option worth almost every ten pence put into its coin-slot. Unfortunately, the C64 version left a lot to be desired: awful graphics, terrible collision detection, ... you name a flaw, it's almost assured that '64 *Dragon* had it. I suppose you could take solace from the fact that versions on other computer formats were just as dodgy, but not much. I'm just glad I didn't buy it myself. Speaking of which, *Blip* — *Video Classics* was a *Silverbird* release that crossed the fine line



● *Double Dragon* was solid beat-'em-up action all the way, unlike the conversion.

from novel to ridiculous, and suffered accordingly. Remember the early consoles, with the *Pong*-orientated arcade games? Can you recall how imaginations were called upon to think of four thin rectangles and a bouncing ball as a football match or tennis tournament? Well *Blip* took those early... I can't call them classics — I mean, they were a bit on the dire side, even back then... 'novellies', and totally failed to update them in any real way. It simply duplicated them. The end result, far from astounding or revolutionary, was another budget game that nobody really bought.



● *Blip Video Classics* — A pointless batch of extinct arcade dinosaurs.

Pacmania

Overpriced but playable

Operation Wolf

Great graphics, but the shooting is a bit off and the game is a bit slow

Thunderblade

A bit of a mess, but the graphics are decent and the game is a bit fast

Exploding Fist +

Really nice, but a bit slow

Double Dragon

Great

Return of the Jedi

Excellent — but a bit slow and a bit off

Grandslam

Ocean

US Gold

Firebird

Melbourne House

Domark

88% 56% 2/10

91% 79% 2/10

69% 65% 2/10

68% 60% 1/10

15% 6% 1/10

61% 51% 2/10

Following Archer Maclean's superlative *IK+* (but not closely enough to make a real impression) was the similarly-named *Exploding Fist +*. It, like the aforementioned classic, added an extra player, a few more moves than its predecessor... to no great effect. *IK+* is the best beat-'em-up the C64 has ever seen, and I can confidently say that it won't ever be surpassed. *EF+* was a sorry cash-in attempt that utterly failed to impress me. Can I really say any more than that? Probably. But I've pretty much run out of spacelord this month.



It takes two...

The *Sales Curve*'s conversion of the *Silkworm* coin-op was, astonishingly, more playable than the original. A horizontally-scrolling shoot-'em-up, it had a simultaneous two-player option where one joystick-wielder controlled an airborne helicopter, the other a ground-based jeep.



● *Silkworm* gained huge popularity before losing its SEU crown to *SWIV*.

Co-operation between players was essential for survival, each vehicle had weaknesses that the other could compensate for, so there was a little more to playing *Silkworm* than simply blasting away. However, its single-player mode was no less enjoyable — choosing between either the jeep or the helicopter, the lack of any assistance made for more challenging gameplay. I played *Silkworm* in the arcades once, and wasn't overly impressed with it — the C64 version seems far superior. How many limes do you hear *that* said?

A new dimension

Pac Man, eh? One of the first arcade machines. It was revolutionary at the time but these days... well, let's just say most people wouldn't waste their money on it. However, if a company were to take the bare bones of the game and change the basic cosmetics, would it make it any more playable? If they were to change the perspective to isometric 3D, increase the size of the graphics and make the maze scroll, would that make it a better game? Well marginally, yes. Grandslam's conversion of *Pacmania* duplicated its

subject matter well, and was fairly playable. It would have made better budget material, but I suppose that's asking for too much...



● *Pacmania* — a valiant attempt to update the classic maze game.

Mission impossible

Thunderblade was an impressive coin-op. Mixing into-the-screen tight sections and vertically-scrolling shoot-'em-up levels, it looked, sounded and played well. It's not hard to understand why people were so sceptical when US Gold announced they were converting it. Trying to fit Megabytes of graphical data into 64k is the sort of task that would give your average programmer nightmares — but, to be fair to them, US Gold and their developers gave it their best shot. The result? A moderately playable blast ruined on tape format by the obviously huge amounts of loading. The disk version was better, but even that was slow...

And so ends another incredibly thrilling installment. Instead of sending availability queries to Lloyd, mark them 'James you pramot, you're quite wrong' and send them to the usual address. Apart from that, it's goodbye for this month...

Microprose Soccer Microprose

90% 90% 6/10

Bambo 3

Ocean

47% 32% 1/10

Blip — Video

Classics Silverbird

15% 9% 1/10

**Rock Star Ale
My Hamster**

Codemasters Gold

50% 35% 1/10

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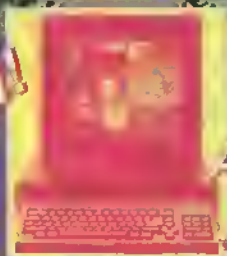
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**COMMODORE
FORCE
HURRICANE
HIT!**

MAYHEM IN MONSTERLAND

0 Apex, £8.99 Cassette, £9.99 Disk

Mayhem in Monsterland? Never heard of it. Does it have anything to do with hedgehogs? Is it a film conversion? Jeez, you'll probably tell me next it's an ultra-slick platform game from the capable hands Creatures 1 and 2 creators, Apex! As if I, JAMES 'SUPER SPIN ATTACK' PRICE would believe that far a second. Heng an, though...

Platform games. Love them or hate them, they're as much a part of computer entertainment as, say, the computers (or consoles) themselves. They're so popular, in fact, that the two biggest companies in the video entertainment industry use them as strong selling points — game of Sonic or Mario, anyone? The efforts of various companies to hype their latest

(platform) game as a hedgehog- or plumber-beater would suggest that there's a little more to the genre than simply jumping on assorted heads. People want to buy these games. This makes them profitable. Flight sims? Nah. Too complicated. What everyone needs is a simple platform game to vegetate with, right? Apparently so. The programmers keep on programming them, while the punters keep paying. Up until now, the only really decent platform games I've bothered with have been *Sonic* (sad but true) and Titus' excellent *The Blues Brothers*. Now there's *Mayhem*.

Mayhem's a horizontally-scrolling platform game. It has five main levels, made up of two different states — happy and sad. Complete the Sad area, and you move onto the Happy section. Finish that, and *Mayhem* progresses to the next 'World'. In Sad areas, *Mayhem* has to collect an allocated amount of magic dust, before making his way to the exit. The bags containing it can be found subsequent to the despatching of certain nasties. In Happy sections, *Mayhem* has to collect X amount of stars to progress to the next world. To kill monsters, *Mayhem* can either jump on their heads or, should he have found the lightning power-up, build up speed and charge through them. All it not that simple, though — later levels introduce creatures

Mayhem, star of the game and all-round cutesy hero. His charge attack is something else — he moves at such an astounding rate, you'll think you've got an Amiga.

The faster these stars rotate, the more points they're worth. Some of them are real tricky to reach, too.

with spiked backs, heads and the like. To kill these, *Mayhem* has to hit a soft point — should he hit the spikes, either energy or a life is lost. Monsters with shells also present a problem — although they're not fatal, should *Mayhem* charge into them he's bounced backwards. Again, soft points have to be attacked...

Downward pull

Mayhem also has to contend with forces such as gravity and inertia. Obviously, when he jumps he returns to ground pretty quickly, but the bigger his run-up, the larger the leap.

The best-looking C64 game ever



• And verily Pipeland was a happy place once more — thanks *Mayhem*.



MONSTERLAND



A monster. A squat one perhaps, but he's nasty nonetheless. A few jumps on his head should do the trick...

Similarly, the longer he runs, the faster he is, until he reaches top speed — which, in Charge mode, is very very fast indeed. Not surprisingly, the quicker he travels, the longer he skids during an emergency (or intentional) stop. Water, predictably, slows our hero's movement. While submerged, Mayhem is less nippy and reacts at a more pedestrian pace, while waterfalls simply speed up his descent after a jump.

Graphically, *Mayhem in Monsterland*'s superb. From the veritable rainbows of colour in the happy

levels, to the oppressive darkness of the sad, it's probably the best-looking C64 game ever. The only game I can really compare it to in terms of cosmetics is *Creatures 2*. Like that previous Rowland production, the presentation is excellent. Before each level, an animated piece of scenery with countless layers of parallax adorns the centre of the screen, with animated text telling which

level's about to be played, and what state it's in... ah, what's the point. I'm about five hundred words into this review, and I feel as if I've hardly scratched the surface of what *Mayhem* has to offer. It's well-presented, playable to extremes, great to look at and listen to — I really can't fault it.

There's even countless amounts of hidden extras (including elusive continues) to search out and claim; completing it wouldn't be seeing all it has to offer. It's utterly frustrating in places, consistently difficult and possibly the most challenging platform games I've ever encountered. Buy it.

JAMES! 98%



MILES!

with *Mayhem*. From the tops of its jelly mountains to the tips of its cute little toes, this is a gamer's dream. Marvellously drawn sprites, especially Mayhem himself, trot about to perfectly smooth scrolling and the difficulty curves in a way that would make Claudia Scheffter red with envy. There's a definite hint of *Marlo* about it but *Mario* never was never this cool — come to think of it, simple collect-'em-up gameplay has rarely hit the mark so precisely either. This is THE platform game the 64's been waiting for, though it's hard to describe in words how truly wonderful it is. The proof of the pudding is in the eating, and once you've had a taste you'll be pigging out for weeks. Sonic who?

96%



■ SUPERB. AND YOU SURE TASTE IT.



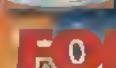
■ THE BEST CAR CHASES EVER SEEN.



■ BRILLIANT. MUST BE CHARGED WITH LAMENESS.



■ UNUSUAL. UNUSUAL. UNUSUAL.



■ 12 THINGS TO DO, BUT ONE WAY TO WIN.

92%

97%

92%

97%

97%

FORCE FACTOR 97%



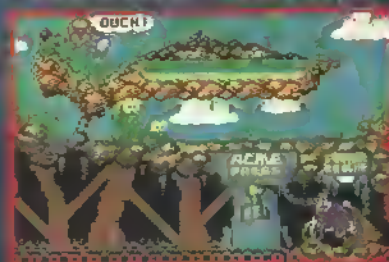
So who are these Rowland bays then? Having just put the finishing touches to their latest epic — Mayhem in Mansterland — they're currently drinking themselves silly in celebration. Bearing in mind their exemplary track record, we decided it was time for an interview. After supplying ample amounts of coffee, we managed to obtain a few words of wisdom from the talented twosome...



These days, programs are being developed as much publicly as privately. For example, Software Systems Inc. has a team of developers who work on the same team C64 program that is being developed by

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...a few remain — possibly these being the Rowlands. The Rowlands are responsible for well-programmed, carefully



Page 2 contains some information
very close to an S-10

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1. **Identify the problem.** The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

The following table summarizes the results of the regression analysis. The dependent variable is the number of days of absence from work. The independent variables are the age, sex, and education of the respondent. The results show that the number of days of absence from work increases with age, and is higher for females than for males. Education has a negative effect on the number of days of absence from work.

For more information, contact the U.S. Census Bureau, Bureau of Economic Analysis, Department of Commerce, Washington, D.C. 20540. Telephone: (202) 292-2200. Fax: (202) 292-2201. E-mail: neer@bea.gov. Web site: <http://www.bea.gov>.



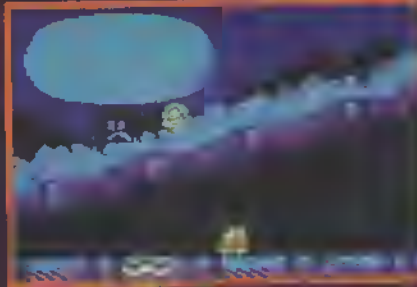
MONSTER GOODIES

Monster Goodies is a collection of 100 monster-themed items, including a variety of monster-themed clothing, accessories, and more. The collection is available in a variety of sizes and colors, and is perfect for fans of the franchise.

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FROM SILICA SYSTEMS - THE UK's No1 AMIGA SPECIALISTS



It's been a long time coming, but finally MILES 'LEMMINGS? HERE! I DON'T BELIEVE IT!' GUTTERY had a balanced welcome to one of the most original games in years. Was it worth it? Good on you and God bless.

مجلس شورای اسلامی

finished at last! What
the one that hasn't
A hundred levels of
students, complete with

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timel of s

[illegible]

1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



• **Callaway II** in 2013, that is, more than a decade in the past. In 1998, Callaway testified that he was the "strong" controlling interest

VOLUME 12 NOVEMBER 1999

way without straying from the point. So, in reverence to those immortal words — 'Let

You're greeted by an animated sequence identical to that found on the 16-bit version. **B**est of all, the women confided in me that the game was

...the
... ..
... ..

**As piece
software**

**Horrible
hard stuff**

that Lemmings
can't dig through.
At least it
doesn't kill

them...

[illegible]

mobility of the joystick was
are all but eradicated.

If you need to slow down a top-down approach, start with this almost self-explanatory diagram:



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[illegible]

**A
timeless piece
of software**

**Horrible
hard stuff
that Lemmings
can't dig through.
At least it
doesn't kill
them...**





You can't blame people for being cynical. Converting *Lemmings* to the C64? Impossible. Or so it seemed. E&E software's conversion of the original Amiga classic is every bit as good as we'd hoped it to be.

E&E software's conversion of the classic Amiga game *Lemmings* to the Commodore 64 is a masterpiece. It's a game that's been around for over a decade, and it's still one of the best. The original Amiga version was a masterpiece of design and programming. It was a game that was easy to learn, but hard to master. It was a game that was fun to play, and it was a game that was easy to recommend. The C64 version is a masterpiece of design and programming. It's a game that's been around for over a decade, and it's still one of the best. The original Amiga version was a masterpiece of design and programming. It was a game that was easy to learn, but hard to master. It was a game that was fun to play, and it was a game that was easy to recommend. The C64 version is a masterpiece of design and programming. It's a game that's been around for over a decade, and it's still one of the best.

THE MA LEMMING

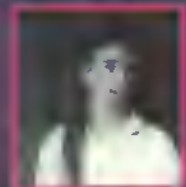
There's a lot of love in the air and port of *Lemmings* to the C64. It's a game that's been around for over a decade, and it's still one of the best.

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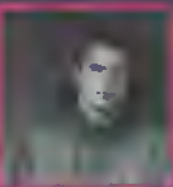
The morning of the day that the C64 version of *Lemmings* was released, the weather was perfect. It was a day that was perfect for a game that was perfect.

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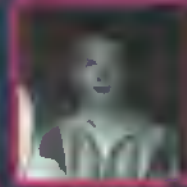
Leon:
Graphicist



Jerome:
Musician



Remi:
Remi



Thomas:
Programmer

THE DAILLY DESIGN

The man behind *Lemmings*, so to speak, is an individual known as Mike Dailly of DMA Design. We asked him how the idea was formed, to which he responded: 'This one's in the history books by now, but if you've lost yours I'm sure I can let you know...

"One lunchtime around August 1990 I was occupying my time by creating a small Dpaint animation. It was only eight frames, but had

hundreds of little men walking up to a gun and getting shot. A guy called Gary Timmonds then added some other men, touched up the animations and then we let others see it. Russel Kay — the programmer of PC *Lemmings* and *Lemmings 2* — was somewhat amused and was sure there was a game in there somewhere. He then did some tests — *Lemmings* walking around, falling etc, and this was shown to Psygnosis at one of the computer shows in London.

successful as it has been? 'No,' he says. 'Okay, we thought it would be big, but not... BIG!'

Finally, we enquired about Psygnosis' reaction after first seeing *Lemmings*. Mike confidently answers 'If you remember most people's reaction when they first saw it, it was much the same with Psygnosis. One big "WOW, COOL". You can't really say much more than that, can you?

Finally, we managed to get in touch with a fellow



MAKERS OF

Figure 10. The effect of the initial concentration of the monomer on the polymerization of **1** in the presence of **2** at 60 °C. [2] = 0.001 mol/L, [AIBN] = 0.001 mol/L, [H₂O] = 0.05 mol/L, [DMSO] = 0.05 mol/L, [M] = 0.001 mol/L, [M] = 0.002 mol/L, [M] = 0.004 mol/L, [M] = 0.008 mol/L, [M] = 0.016 mol/L, [M] = 0.032 mol/L, [M] = 0.064 mol/L, [M] = 0.128 mol/L, [M] = 0.256 mol/L, [M] = 0.512 mol/L, [M] = 1.024 mol/L, [M] = 2.048 mol/L, [M] = 4.096 mol/L, [M] = 8.192 mol/L, [M] = 16.384 mol/L, [M] = 32.768 mol/L, [M] = 65.536 mol/L, [M] = 131.072 mol/L, [M] = 262.144 mol/L, [M] = 524.288 mol/L, [M] = 1048.576 mol/L, [M] = 2097.152 mol/L, [M] = 4194.304 mol/L, [M] = 8388.608 mol/L, [M] = 16777.216 mol/L, [M] = 33554.432 mol/L, [M] = 67108.864 mol/L, [M] = 134217.728 mol/L, [M] = 268435.456 mol/L, [M] = 536870.912 mol/L, [M] = 1073741.824 mol/L, [M] = 2147483.648 mol/L, [M] = 4294967.296 mol/L, [M] = 8589934.592 mol/L, [M] = 17179869.184 mol/L, [M] = 34359738.368 mol/L, [M] = 68719476.736 mol/L, [M] = 137438953.472 mol/L, [M] = 274877906.944 mol/L, [M] = 549755813.888 mol/L, [M] = 1099511627.776 mol/L, [M] = 2199023255.552 mol/L, [M] = 4398046511.104 mol/L, [M] = 8796093022.208 mol/L, [M] = 17592186044.416 mol/L, [M] = 35184372088.832 mol/L, [M] = 70368744177.664 mol/L, [M] = 140737488355.328 mol/L, [M] = 281474976710.656 mol/L, [M] = 562949953421.312 mol/L, [M] = 1125899906842.624 mol/L, [M] = 2251799813685.248 mol/L, [M] = 4503599627370.496 mol/L, [M] = 9007199254740.992 mol/L, [M] = 18014398509481.984 mol/L, [M] = 36028797018963.968 mol/L, [M] = 72057594037927.936 mol/L, [M] = 144115188075855.872 mol/L, [M] = 288230376151711.744 mol/L, [M] = 576460752303423.488 mol/L, [M] = 1152921504606846.976 mol/L, [M] = 2305843009213693.952 mol/L, [M] = 4611686018427387.904 mol/L, [M] = 9223372036854775.808 mol/L, [M] = 18446744073709551.616 mol/L, [M] = 36893488147419103.232 mol/L, [M] = 73786976294838206.464 mol/L, [M] = 147573952589676412.928 mol/L, [M] = 295147905179352825.856 mol/L, [M] = 590295810358705651.712 mol/L, [M] = 1180591620717411303.424 mol/L, [M] = 2361183241434822606.848 mol/L, [M] = 4722366482869645213.696 mol/L, [M] = 9444732965739290427.392 mol/L, [M] = 18889465931478580854.784 mol/L, [M] = 37778931862957161709.568 mol/L, [M] = 75557863725914323419.136 mol/L, [M] = 151115727451828646838.272 mol/L, [M] = 302231454903657293676.544 mol/L, [M] = 604462909807314587353.088 mol/L, [M] = 1208925819614629174706.176 mol/L, [M] = 2417851639229258349412.352 mol/L, [M] = 4835703278458516698824.704 mol/L, [M] = 9671406556917033397649.408 mol/L, [M] = 19342813113834066795298.816 mol/L, [M] = 38685626227668133590597.632 mol/L, [M] = 77371252455336267181195.264 mol/L, [M] = 154742504910672534362390.528 mol/L, [M] = 309485009821345068724781.056 mol/L, [M] = 618970019642690137449562.112 mol/L, [M] = 1237940039285380274899124.224 mol/L, [M] = 2475880078570760549798248.448 mol/L, [M] = 4951760157141521099596496.896 mol/L, [M] = 9903520314283042199192993.792 mol/L, [M] = 19807040628566084398385987.584 mol/L, [M] = 39614081257132168796771975.168 mol/L, [M] = 79228162514264337593543950.336 mol/L, [M] = 158456325028528675187087900.672 mol/L, [M] = 316912650057057350374175801.344 mol/L, [M] = 633825300114114700748351602.688 mol/L, [M] = 1267650600228229401496703205.376 mol/L, [M] = 2535301200456458802993406410.752 mol/L, [M] = 5070602400912917605986812821.504 mol/L, [M] = 10141204801825835211973625643.008 mol/L, [M] = 20282409603651670423947251286.016 mol/L, [M] = 40564819207303340847894502572.032 mol/L, [M] = 81129638414606681695789005144.064 mol/L, [M] = 162259276829213363391578010288.128 mol/L, [M] = 324518553658426726783156020576.256 mol/L, [M] = 649037107316853453566312041152.512 mol/L, [M] = 1298074214633706907132624082305.024 mol/L, [M] = 2596148429267413814265248164610.048 mol/L, [M] = 5192296858534827628530496329220.096 mol/L, [M] = 10384593717069655257060992658440.192 mol/L, [M] = 20769187434139310514121985316880.384 mol/L, [M] = 41538374868278621028243970633760.768 mol/L, [M] = 83076749736557242056487941267521.536 mol/L, [M] = 166153499473114484112975882535043.072 mol/L, [M] = 332306998946228968225951765070086.144 mol/L, [M] = 664613997892457936451903530140172.288 mol/L, [M] = 1329227995784915872903807060280344.576 mol/L, [M] = 2658455991569831745807614120560689.152 mol/L, [M] = 5316911983139663491615228241121378.304 mol/L, [M] = 10633823966279326983230456482242756.608 mol/L, [M] = 21267647932558653966460912964485513.216 mol/L, [M] = 42535295865117307932921825928971026.432 mol/L, [M] = 85070591730234615865843651857942052.864 mol/L, [M] = 170141183460469231731687303715884105.728 mol/L, [M] = 340282366920938463463374607431768211.456 mol/L, [M] = 680564733841876926926749214863536422.912 mol/L, [M] = 1361129467683753853853498429727072845.824 mol/L, [M] = 2722258935367507707706996859454145691.648 mol/L, [M] = 5444517870735015415413993718908291383.296 mol/L, [M] = 10889035741470030830827987437816582766.592 mol/L, [M] = 21778

1. **Introduction**
 2. **Background**
 3. **Methods**
 4. **Results**
 5. **Conclusion**
 6. **References**

[illegible]

the authors of the book, and the book is a very good example of the kind of work that should be done in the future. The book is a very good example of the kind of work that should be done in the future.



known as Greg Duddle. He's the Producer of *Lemmings*, and has been involved with more games than most people have eaten hot dinners. Having heard about E&E's excuses (Remi's in particular), we asked him what it was like to be working with the team. 'Remi and the others! Hmmm... although a decent, likeable bunch and very competent on the C64, they were notoriously difficult to pin down to any kind of deadline — 'it's almost ready, it'll arrive on Friday etc''. Finally, we enquired if working on C64 *Lemmings* had affected him in any way 'Aazigh!' he said 'I can't believe it's over!' Whatever could he mean...?



MAYHEM

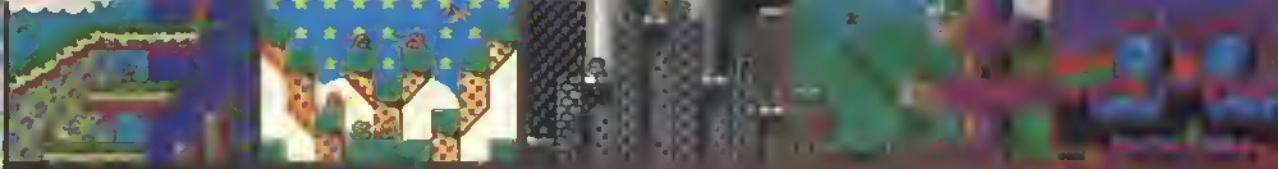


IN
MONSTERLAND

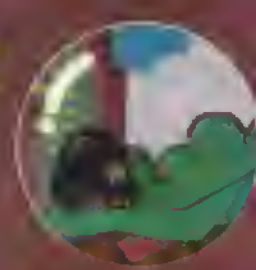
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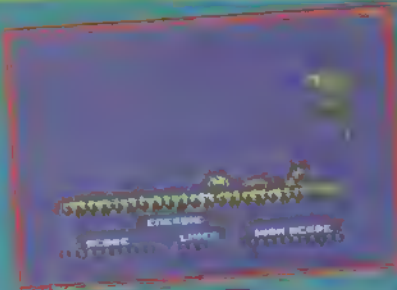
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 ADDRESS.....

 POST CODE.....





PD CAN TAKE IT

Binary Zone PD, £6.00

In a world where money talks, not to mention an industry where it also sings, dances and plays a variety of musical instruments it's good to see there's still some people in it for pleasure at the expense of profit. **MILES 'JINGO' — THAT'S VERY REASONABLE FOR THE PRICE' GUTTERY pulls on his borgoin-boots and wodes into Binary Zone's new PD compilation...**

You may be thinking there's a lack of software around for the C64 these days. Of course it would be silly to suggest the scene to be as prolific as it was. The heady days of the late eighties when C64s really were number one are now truly behind us but, despite the sleazy decline in quantity (though not necessarily quality) of commercial software over the last 18 months, there's still one area thriving, probably more than ever before — Public Domain. That's where many of tomorrow's main programming bods are today. Gaining experience, sharpening up their routines and, most importantly, getting 'heard about'.

You're sure to have read Public Sector in which our good mate from the land of clogs and dykes,

the eminent Remi Ebus, writes about the latest demos to check out. These usually involve spanky visual and/or sonic effects, to which you sit there and say 'Cor, that's a bit clever!'. But that's all you do — sit there. Fortunately there's more to PD than snazzy demos — it's also a rich source for cheap, original games. In recognition of this top C64 PD suppliers, Binary Zone, have compiled 42 playable games on one tape, all for the nominal fee of six quid (that's 14,286 pence per game if you're interested).

As you'd expect it's a pretty mixed bag. Something for everyone you might say. Homage is paid to crusty arcade/console 'classics' with

Galaxian and a playable enough (or at least as ever it was) rendition of *Pong*. You know the one — each player has a bat either side of the screen,

the idea being to hit a 'ball' back and forth until someone misses. Forgettably enthralling, character block graphics 'n' all. There's even a *Donkey Kong* variant, but I don't remember 'DK' being so blimmin' hard! Barrels and fireballs come at such a rate it's unlikely you'll ever get to Kong, let alone rescue that poor damsel.

Inevitably there's a sprinkling of SEUCK-'em-ups lurking amongst the ether titles

ranging from deeply dull to the quite impressive. Most visually pleasing is *Grad The Pixie*. Beautifully sculpted backdrops add a lot to fairly unchallenging gameplay. There's also one or two from the man himself, Alf Yngwie.



Looney Tunes

On sale December '93





COMMODORE
FORCE

PLAYSTATION

OH NO! IT'S A LEMMING COMPO

**TEN
GOODIE
BAGS UP
FOR
GRABS!**

Howdy folks! It's COMMODORE FORCE compo time again. Yep, to commemorate the cataclysmic events of this month — firstly me (Miles) crashing my car (again! — Just So Happened To Be Passenger Ed) and secondly *Lemmings*, we've gotten together with Psychonosis to bring you another great opportunity to grab a load of free loot.

So (sob), there I was, driving merrily along on my way to work, the sweet melodies of The George Sateellites billowing from the stereo. There's nothing like cruising to some cool sounds with the highway stretching ahead of you, then KKERUMP! Some dope had parked right in the middle of the road and yours truly obligingly ploughed straight into him. My lovely new car now resides at the local garage, a sorry sight to behold. It's headlamps smashed, bumper bent and shiny fender buckled and broken. Excuse my whining but it's been a bummer of a week...

But back to the comp. There's ten goody bags containing *Lemmings* and Psychonosis merchandise that must be won. Hats, T-shirts — you name it, it's in these bundles of brilliance, probably. If you'd like to lay your hands on one then here's how to get in with a chance — just think up an answer to our little *Lemmings*-related one-liner.

Q: Why did the Lemming cross the road?

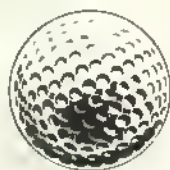
A:

The least cringeworthy ten entries were selected by our good selves and the senders. Send your entries to:

Oh dear, they really are scraps of the barrel for these competitive COMMODORE FORCE, Impact Ludlow, Shropshire SY8 1JW.



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SIGNATURE



At the end of the third (and quite possibly last) *Alien* film, viewers saw Ripley — actor Sigourney Weaver — die. Bearing in mind Ripley's importance in the film, is this the end of the *Alien* as we know it? What does Sigourney think?

BURNETT ALAN BYRCE Investigates...

It's a little early to tell, but it seems like a good idea. Ripley's death in the third *Alien* film was a real shock. But it's not the first time we've seen Ripley die. In the first *Alien* film, he was killed by the queen.

In the second *Alien* film, he was killed by the queen. In the third *Alien* film, he was killed by the queen. In the fourth *Alien* film, he was killed by the queen. In the fifth *Alien* film, he was killed by the queen.

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Y SPEAKS

Background effects

The following information was obtained from the authors' interviews. It includes the names of the interviewees, their positions, and the dates of the interviews.

As a result, the authors conclude that the use of a single, standardized, and validated instrument to assess the quality of life of patients with cancer is not sufficient. They recommend that researchers use a variety of instruments to assess the quality of life of patients with cancer, and that they use a variety of instruments to assess the quality of life of patients with cancer.

These results suggest that the use of a single, standardized, and validated instrument for the assessment of the impact of the intervention on the quality of life of the patients is a necessary step in the evaluation of the effectiveness of the intervention. The use of a single, standardized, and validated instrument for the assessment of the impact of the intervention on the quality of life of the patients is a necessary step in the evaluation of the effectiveness of the intervention.



There is a growing body of research that suggests that the use of technology in the classroom can enhance student learning and engagement. This research is based on the idea that technology can provide students with access to a wide range of resources and tools that can help them to learn more effectively. For example, students can use technology to access online resources, such as videos and interactive simulations, which can help them to understand complex concepts more easily. Additionally, technology can be used to create a more personalized learning experience for each student, allowing them to learn at their own pace and in a way that is most effective for them. This research also suggests that technology can be used to increase student motivation and engagement, as students are more likely to be interested in learning when they are using technology. Overall, the research suggests that technology can be a valuable tool for enhancing student learning and engagement in the classroom.

the 1990s, the New York City Police Department (NYPD) has been the largest employer of African American men in the United States. In 1990, 25% of the NYPD's 35,000 officers were African American. By 2000, this percentage had increased to 30%. The NYPD has been a major employer of African American men in the United States since the 1970s, when it began to recruit heavily from the African American community. The NYPD has been a major employer of African American men in the United States since the 1970s, when it began to recruit heavily from the African American community. The NYPD has been a major employer of African American men in the United States since the 1970s, when it began to recruit heavily from the African American community.

As the following examples demonstrate, the system can be used to generate a wide range of reports, including a summary of the system's performance, a list of the system's components, and a list of the system's users. The system can also be used to generate a list of the system's errors and a list of the system's warnings.



Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher than the number of incorrect responses in all cases. The number of correct responses was significantly higher than the number of incorrect responses in all cases. The number of correct responses was significantly higher than the number of incorrect responses in all cases.

[illegible]

As a result, the company's financial performance was poor, and its stock price fell sharply. The company's management was criticized for its lack of transparency and its failure to address the issues raised by the public. The company's reputation was damaged, and its ability to attract new customers was severely impacted. The company's financial performance was poor, and its stock price fell sharply. The company's management was criticized for its lack of transparency and its failure to address the issues raised by the public. The company's reputation was damaged, and its ability to attract new customers was severely impacted.

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The move also meant that she had to leave behind some important production relationships. The studio was the home base for her long-time collaborator, producer-director John Dahl.



The 1980s saw
 the first time that
 the U.S. government
 began to fund
 research on the
 health effects of
 electromagnetic fields
 (EMF). In 1989, the
 National Institute of
 Environmental Health
 Sciences (NIEHS) and
 the National Institute
 for Occupational Safety
 and Health (NIOSH)
 began a joint effort
 to study the health
 effects of EMF. This
 effort was part of a
 larger program to
 study the health
 effects of environmental
 factors.

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting two heads)
2. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting two tails)
3. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting one head and one tail)
4. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting one tail and one head)
5. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting one head and one tail)
6. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ (Probability of getting one tail and one head)

There is a large number of studies that have been conducted in the field of human factors and ergonomics. These studies have been conducted in a variety of settings, including the workplace, the home, and the laboratory. The results of these studies have been used to develop a variety of interventions to improve human performance and reduce the risk of injury and illness. Some of the most common interventions include the use of ergonomic tools and equipment, the implementation of safety training programs, and the design of work environments that are more conducive to human performance.

[illegible]

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These results suggest that the use of the *in vitro* model for the study of the effects of the various components of the food system on the growth of *L. monocytogenes* is a useful tool for the study of the effects of the various components of the food system on the growth of *L. monocytogenes*.

● Zeppelin £TBA

Sports. Either you've got it or you haven't — and the **COMMODORE FORCE** crew fall into the latter category. We do manage to do the odd bit of exercise — James does some weightlifting ('guys, guys — I've got three pints in one hand'), Lloyd carries the letters bag into his office, and MILES 'OLYMPING OFF THE COURTY' GUTTERY plays squash. As he's the sportiest, we reckoned Zeppelin's latest compilation was his kind of thing...

Cripes — what a lot of sports sims in one easy-to-swallow package. Now that's what I call VFM — or is it?

INTERNATIONAL TRUCK RACING

Thundering around tortuous racing circuits in a huge super-charged articulated lorry may sound jolly exciting, but Zeppelin's interpretation of this obscure sport really isn't. Having totally failed to give any feeling of weight to these monster machines, the racing's nonetheless quite fun. Building up various aspects of your truck's performance with prize money from previous races requires tactical thought, as does deciding whether or not to head into the pits for extra fuel and damage repairs during a tight race.

If you've got half an hour to spare, here's a harmlessly merry way to fill the time.



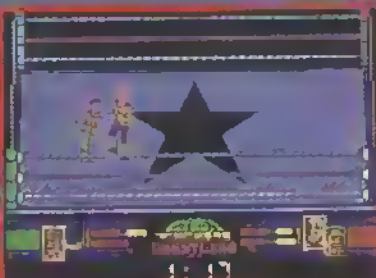
AMERICAN TAG TEAM WRESTLING

Bleugh! Minimal moves, dire graphics, need I say more, okay then — appalling sound, befuddling collision detection and animation of low quality. It's very bad, it's very bad it's very very bad, very very bad.

SPOOL TOP

INTERNATIONAL ICE HOCKEY

Ugh! Surely I can't be expected to sit down and actually attempt to play this dungy little effort. Control over your particularly badly-drawn players is utterly frustrating. Unresponsive in the extreme and the highly erratic inertia just compounds annoyance. You can be toodling along at a sedate pace one second and then, before you know it, you find yourself hurtling towards the wall completely out of control. Tackling is near impossible with any accuracy — even with two players any competitive element is dwarfed by mountainous boredom. Farical.



WORLD RUGBY

I must say the most enjoyment I ever derived from this most violent of sports was the hilarious 'odd shaped ball' jokes — and they weren't very funny. So could *World Rugby* be the game that opens my mind to the sport of heavy tackles and heavier drinking? Ahem — no! A management game in which all you do is choose the best fifteen players from your limited squad and hang on, there isn't any more to it! It looks nice enough, but actually calling this a 'game' is in stretch the term. Not even the most fanatical of fans will get anything out of it.

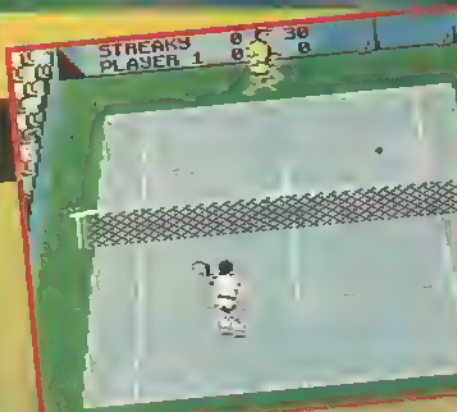
68%

18%

23%

30%

SPORTS



INTERNATIONAL TENNIS

All the important options for a tennis simulation are incorporated into *International Tennis*. There's a tournament, one- and two-player hendries — there's even an enjoyable little game to match. Its controls are as instinctive as you could wish for, with a variety of shots that you'll be playing like a professional after a couple of goes. Of course it's at its best if you get a friend in to play against, even so, the computer provides more than satisfactory opposition for the lonesome among you. Good, easily accessible strawberries n' cream fun.

84%

WORLD CRICKET

Cricket management — now there's something you don't see very often in a computer game. Well there's quite a simple reason for that: actually, there's not very much to do. Once you've set the options (one day match, test, tour, etc) all that's left is to choose the batting/fielding order then let the game play itself, and that's what it does for the most part. It's nicely presented and everything but you just don't get much feeling of involvement. What's more, I'm not convinced it actually follows the rules of the game all that closely. Couple this with some dodgy tactical decisions by the computer — during one test match I played it declared at 147 in the first innings — you're left with a rather unsatisfactory effort.

52%



WORLD SOCCER

There are three lousy management games in the pack — namely *World Soccer*, *Kenny Dalglish* and *Gaeme Souness* — but as they're all pretty similar (read: almost identical) I'll talk about the 'best' one. It's an odd little chap. A soccer game in which you compete as part of a three division league against sixty top sides from around Europe. A laughable 'match' sequence does little to hide the painfully shallow gameplay — basically all you do is buy the odd player and replace team members when they get injured. Watching the match commentary is good for a cringe at first. Seven or eight near-literate statements pop up when there's a goal or near miss — Brian Moore would turn in his sweater. Been there, loaded that, won't be playing it tomorrow.

82%



CARNAGE

Overhead viewed single-screen tracks are the *Superspartan* order of the day with *Carnage*. In a similar vein to *International Truck Racing* (elsewhere on this comp), you get to soup up your vehicle between races with prize money won. In one player mode *Carnage* features one of the most pointless league systems ever seen in a computer game. The player competes in a championship alongside three other drivers with points awarded after each race, four for first place, three for second and so on. 'Fair enough' you cry but here's the really stupid part — you have to finish first to qualify for the next track. In one game I was five points clear in the championship when one small hiccup meant I finished third in the next race, only to be greeted by an internal 'game over' message. Things improve a little in two-player mode as only one needs to qualify, but it's still annoying. I seem to recall this was received pretty well as a stand-alone release some months back. All I can say is we must have been in a pretty benevolent mood at the time.

64%



When it comes to...
wait... it's a...
...n...
...w...
...at...

MILES 48%

MANGRAM'S MAIL BAG



It's been a strange month, there's no doubting that. The departure of Chris

Hayward to SNES FORCE

has helped the

office to be a less obscure and strange place. For example, his 'fruit pastille meets trilobite' sculpture's gone, and we've picked up all the just fruits off the shelves, but the office just isn't the same, y'know? Once are his little messages tumbled into my letters, but that's not such a bad thing — some of the later ones were a bit strange. Mostly nonsense like 'Tina Section', 'Fire Axe' and 'That Infernal Guttery Fellow'. Anyway, on with the letters — of which there are more this month, due to popular demand...

QUESTIONABLE?

Dear Lloyd,

Your mag is the best but, that aside, I'd like to ask you a few questions.

1) Your Reel Action tapes are great — could you get a Nobby the Aardvark demo?

We tend to only include covertape demos around the time a game is actually released. As you'll well know, Nobby was reviewed a fair while ago.

2) In Issue One you had 14 reviews. In Issue Nine you only had four. Why?

Because in Issue One we had 14 games to review and in Issue Nine we had a mere four. It's not our fault, blame the software houses...

3) What games have been rated 100%?

There's never been a game released that has deserved (or indeed received) a 100% rating. To be honest, I don't think there ever will be.

4) Will there be another Dizzy game out?

Not for the C64. It's also likely that, after the



conversion of NES Fantastic Adventures of Dizzy (a mish-mash of the egg's arcade and arcade adventure games) to other formats, Dizzy may be laid to rest for good. Don't quote me on that though — the ovoid does have remarkable staying power...

5) At Christmas, will you give us three Reel Action tapes instead of two?

Perhaps...

6) Who's Rod? Miles' brother

Sorry if this letter's a bit long. Billy Devino, Lordwood, Kent

• More questions! Could people try and avoid using them as much, please? Why can't we have debates, like we did in the old days, foam gibber..

LM

LOAD MOAN

Dear Sir,

Why is it that new programs for the C64 are 99% multiload? When I bought my computer back in 1984, there were programs like *Manic Miner*, *Jet Set Willy*, *Bruce Lee* — all of which loaded in a single part. Look at the helicopter simulator, *Tomahawk* — all that data loaded in one go! I've not long bought *Robin Hood*, *Legend Quest*, and once the lives counter reaches zero, you have to rewind the tape to load what's already in the memory. It's deft! Even *F16 Combat Pilot* is another offender — when you crash, it tells you to 'rewind to zero on side A'. Why doesn't it just say 'Turn computer off and load again'? Isn't that essentially what's happening?

When will these C64 programmers get their act together?

Philip Riding, Forest Gate, London.

• I agree that multiloads are a pain, but sometimes they're essential. Games like *Alien 3* and *Lemmings* are perfect examples of how, when well thought-out, multiloads can facilitate the inclusion of extra levels, music, presentation... the list is almost endless. I'm not a big fan of prolonged tape accessing myself, but then again, who is? Now if the games were to be released on cartridge...

LM

NO SALE

Dear Lloyd,

Sorry — I'm an Amiga 500 owner (hopefully soon to be a CD32 owner. Reading Dad?) and I was going to sell my C64 with disk drive. However, while I was playing a game it suddenly stopped working, so now I'm selling everything separate. I took the lot to a car boot sale, where a guy came up to me and said 'do you realise that some early copies of these with tapes are worth £20?' He was, of course, referring to my old ZZAP's that I was flogging for a quid. I immediately stopped selling them.

I don't know if you can understand what I'm getting at, but I'm wondering if these mags are really worth something. I've even dug out some old (1986) Year Commodores. So please tell me — are these mags worth anything? Oh, and where can I sell them?

Thanks for the help — if you help me, that is
Stuart Winchester, Swansea, West Glamorgan

I'm not sure how much old ZZAP!s are worth — having never attempted to sell mine, I'm not particularly clued-up on the going rates. Like most things, I'd say they're worth as much as the buyer's willing to pay — which, where Your Commodore's concerned, won't be much at all...

THREATENING BEHAVIOUR

Dear Lloyd (thing),

I've got some questions for you

- 1) Why do you wear that stupid bag?
- 2) Why did you write this stupid letter?
- 3) How old are you?
- 4) I write,
- 5) Erm, I forgot
- 6) That's not a question.
- 7) Do you think I should get a disk drive, or 14 tape games?

I can't really say. It's up to you — do you want the short-term gratification, or the long-term investment? Ahh, decisions decisions...

If you don't remove that bag I'll get a meteor to kill you. Ha ha!

Leonard Bantlin, St Helens, Merseyside

● If I don't remove my bag? For some reason, I doubt your meteor-hurling abilities. I'd like to see you try, though...

LM

QUESTIONABLE? (2)

Dear Lloyd,

Have you any idea where I could get a copy of Skooldaze? My friend had a copy ages ago and said it was great. To be original, here are some questions

- 1) Is there any chance of Morai Kombar coming out on the C64?

In a nutshell, no.

- 2) Are there any more versions of Street Fighter 2 in the pipeline?

Again, no.

- 3) I know what has happened to Steve Shields, but what the hell has happened to Ian?

He's working for our sister magazine, AMIGA FORCE.

- 4) Do you know where I can get a copy of ZZAP! 64, Issue One?

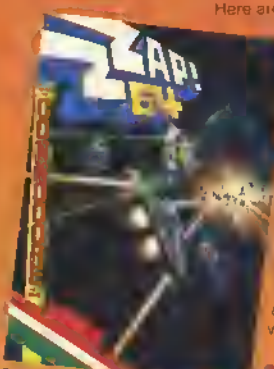
Actually, no. They're very hard to find — we've only got one copy ourselves...

You're not going to print this letter — I can sense it.

Stuart Price, Derby

● Skooldaze was last published by Alternative — give them a ring on 0977 797777 and if they've got any copies, I'm sure they'll be more than pleased to sell you one. And I did print your letter — better get those 'senses' checked out, yes?

LM



ZZAP! MAD

Dear Lloyd,

The reason for my writing is this: you're the last person left from ZZAP! Who could forget our fresh-faced Robin Hogg or the athletic Phil King? To put the icing on the cake, of course, you were there. I couldn't have asked for anything else at the time!

Here are a few things that I feel would help

COMMODORE FORCE

- 1) Call it ZZAP! 64
- 2) Bring back Rob and Fatty Phil
- 3) Bring back the readers' challenge

Please print this letter to see what response comes from other readers

Andy 'ZZAPAHOLIC' Hunt, Portsmouth

PS In your questionnaire it says that the first pulled out of the hat will win a mystery prize. How are you going to send it to the winner if you haven't left space for names and addresses? Was it a con to make us send them in? I think we need to know!

● Ah, my friend. Nostalgia's one thing, but the days of ZZAP! are long gone, and I think it's time for you to come to terms with that. For a start, they actually had software in those days! Imagine COMMODORE FORCE with 30 games reviewed in an issue! We can but dream...

The Microprose Soccer readers' challenge will be appearing next issue, and in reply to your questionnaire query, there's a good reason for it. You see, we were testing our readers' intelligence. Would they include their addresses and... oh, what the hell. James forgot to include it in his mad rush to get the issue finished, and apologises for any inconvenience caused. Probably.

LM

EXTORTIONATE!

Dear Lloyd,

Congrats on the great mag. I've just got Issue Seven and read Back to the Future: 1985. I've found that many of the games included are available through EDOS Computer Visions (they advertised in Issue Four), including Skooldaze and Theatre Europe.

The main reason I'm writing is to comment on the price and availability of C64 games in Oz. It's near impossible to get games on disk and even harder on cassette. For example, *Indy Heat* costs around \$50 (£22) at one of Australia's largest stockists, yet at AMMA Software in England it costs a mere \$10 (£3.99) plus postage.

Anyway, thank you very much for compiling such a great, informative, fun magazine without which I would probably still be paying \$50 for a game.

T Bates, Kempsey, Australia

● Ah, yes, James has been written to time and time again about Skooldaze and Theatre Europe being on EDDS — he's got the message now so you can all stop reminding him, okay? I hope you British readers have taken notice of just how hard it is for some people to get C64 software — thank your lucky stars it's not that bad over here...

LM

TREACHEROUS DEPARTURES

...he's got good hair!

Please print this letter as I've bought an issue of your wondrous mag and I promise never, ever, buy a console.

Cheers Lloyd.

Tim Roberts, Brisbane, Somerset

RETROSPECTIVE.

Dear Lloyd

I've been reading your fine publication — in both of its guises — since ZZAP! 64 Issue #45 (which featured a *Robocop* demo and the game *Paralyx* on the cover). ZZAP! was very good but the quality has shot up since then. I saw Matt, Kale and Gordo leave to be replaced with the Hogg man, Fatty Phil and Stu... and many other staff changes. I can tell you.

The best move ZZAP! ever made was to get rid of the Amiga coverage — let's face it, the Amiga users were getting a bit cocky, asking for cover disks and telling C64 users to stop living in the past! Of course, the other C64 publication at the time (CU), to all those of you who don't go back that far, became totally Amiga-orientated after previously promising they'd stay faithful to the C64. Luckily, you didn't do the same, although everyone thought you would.

I was a bit upset when I read an article that said ZZAP! had gone bust, but — thankfully — shortly afterwards you were back and kicking butt. I didn't like the name **COMMODORE FORCE** at first — for a start you had the same initials as that other C64 mag — and I thought you wouldn't retain ZZAP!'s humour, but you did.

The best thing **COMMODORE FORCE** ever did was to put some really decent games on the coverpages, such as *Spindizzy* and *The Blues Brothers*. Well done and thank you for a decent C64 magazine.

Ian Burden, Dorchester, Dorset

● So many issues... it's been a long time since I started. I don't know how to answer your letter as — well, you haven't asked any questions. Hmmm. Anyway, thanks for the compliments, and keep reading **COMMODORE FORCE**. What a boring reply...

No, wait there — I can't be that old and stupid. Here goes with the obscurities: **TREES TREES, TREES AND BEES, DON'T FORGET TO FEED THE GOATS, blither...**

LM

THREATENING BEHAVIOUR (2)

Dear Sir,

After being a loyal reader for over five years and a C64 owner for slightly longer, I've seen a rapid decline in '64 shelf space over that period of time. Recently, I've been searching for a game called *Speedball*. As you can imagine, I was horrified when I discovered that Imageworks — its publishing company — had gone bust. My question to you is this: how could it happen? On a final note I'd like to ask you if it's possible to put the aforementioned classic on *Real Action*? As far as I know, no-one holds the rights.

PKS the YC fan (not), Somewhere
PS If you don't print this *The Scorelord* will do VERY NASTY naughty things to you and your bananas. This is a threat.

● You'll have to shop carefully to find *Speedball* — it's been a long time since it was given shelf space. Saddy, we can't just put games on *Real Action* without getting permission from the licence holder — we don't know who currently holds the rights to *Speedball*, so don't expect to see it unless we discover who does. If you're wondering why *Imageworks* went bust, it's simple — they disappeared under the waves in a fashion subsequent and not dissimilar to their owner, the late Robert Maxwell.

Anyway, what's the beef with threatening

me? That's the second time this month! You couldn't pull it off anyway — James stole the *Scorelord*'s super space-ship computer to plan quick routes to the pub with and replaced it with a *Vic 20*. The ex-high score guru (and full-time aedist) is currently drifting through the Horse-head Nebula with a flat battery. Or so I'm told — perhaps I should lay off the Bitter for a few days...
LM



GOODBYE, MY FRIEND

Dear Lloyd,

This is probably the last time I'll ever write to you. By the time you read this, I won't be buying **COMMODORE FORCE** — I am, like so many others, going to upgrade.

I'm not one of those people who would just buy a computer (or a console) for the graphics alone. For instance, when the Super Nintendo came out, everyone dropped their jaws at its 32,000 colours and Mode 7 sprite rotation, when C64 owners did well enough on 16. I was prepared to hold onto my C64 for as long as I could. I was sure it could stand up against all comers...

But then the Spectrum and Amstrads became obsolete, and it now seems the C64 is following suit — rapidly. Take a look at how much software was coming out this month (August at the time of writing) last year, and the year before:

Year	Games Reviewed	Full Price
Budget		
'91	35	20
'92	15	5
'93	4	0

See how the situation's changed?

We live in a world set towards graphics. The Amiga 1200 has 16.7 million colours, over a million times more than the C64. So you can see what Joe Soap would want to buy — never mind the price, look at all those colours!

I am, in fact, getting an Amiga 1200, but not for its colours — it's fast, supports some stunning software and appears to be Commodore's new flagship machine (they're flogging A660's for next to nothing and seem to be going 32-bit only). Best wishes, Lloyd.

Paul O'Brien

● More doom and gloom. As I've already said, there's a limited amount of software released these days, but a phenomenal amount already available if you shop carefully.

As for your views on colours, surely people consider more than that? What about the quality of the sound, the availability of software, the standard of the games? People aren't that stupid.

LM

LETTER OF THE MONTH!

THE SPUD WRITES TRICKS...



COMPANY COMPARISONS

Dear Lloyd,

First off I'd just like to say how excellent COMMODORE FORCE is, especially the games. Anyway, I thought I'd do a round-up of the most popular software houses and what I think of them. How about if other readers could do it as well so COMMODORE FORCE could have a 'favourite software houses' chart? Here's my view:

OCEAN

They've given us many a classic game, and are probably the biggest software company going. However, the majority of their movie conversions have been platform shooters.

8/10

US GOLD

They're responsible for the conversions of a fair few arcade classics, such as *Street Fighter 2*. Let's just say they don't do a very good job.

5/10

SYSTEM 3

The best C64 software company, or they were — I think they've gone bust!

9/10

BEYOND BELIEF

Honestly, if the C64 market is to get better we don't need these guys.

2/10

CODEMASTERS

Dizzy Seymour. Cute platformers. Dizzy Seymour. Cute platformers. Come on, enough is enough.

4/10

ZEPELIN

Lots of releases, very few classics.

4/10

THALAMUS

A great company, responsible for some of the best games around — the name *Creatures 2* springs to mind.

9/10

MICROPROSE

The kings of the sims.

7/10

Now it's questions time (please answer them, as they're only small).

1) What's happened to the following games: *Fly Harder*, *Dyna Blaster*, *Bee 52*, *Fuzzball*, *Mega Twins*, *Beavers* and *Speedball 2*?



I thought you said they were small questions! Oh well, here goes...

Fly Harder is produced by a foreign company who we've heard nothing from since we received the game, so a review's out of the

SNIPS

CHOICE BLENDS SELECTED FROM FINEST GROUND LETTERS



question until we know whether it's being released, how much it will cost and, um, get another copy of the game because we've lost our original one. Dyna Blaster? I assume that's available at retail level. To the best of my knowledge, it was released. If you can't find it, try Kingsoft's *Bug Bomber* — they're very similar, but *Bomber* has a better one-player mode. *Bee 52* should be in the shops shortly — I couldn't say exactly when — and *Fuzzball*'s been out for ages, or so I'm told. *Mega Twins*? Never heard of it. *Beavers* won't be released on the C64, and finally, *Speedball 2* apparently disappeared following the collapse of the Maxwell empire that just happened to include its publishing company, Imageworks. Phew! Is that the longest in-question answer yet?

2) Are there any C64 games like Nintendo's *Probotector*? I asked SNES *Force*'s Will Evans (the goth kid — 'In Joke' Ed) about *Probotector*, and he, being an ex-C64ster himself, recommended *Imagine's Gryzor* — apparently, the two games are very similar, to the point of being almost identical in places.

3) How about putting *The Last Ninja* on the cover tapes? We'll see...

Keep up the good work
Darren Langran, Dagenham, Essex

• You had to ruin it, didn't you! After the interesting start to the letter — ie you didn't

moan about consoles — the addition of questions at the end of it all put you back down on everyone else's level. System 3 haven't gone bust by the way — they're concentrating on SNES product, and are unlikely (read: not) to consider releasing any more C64 software. Sad but true.

LM PUNY

Dear Lloyd,

I used to own a C16 +4 until it packed up from over-use. I was wondering if I can get *Master Puniverse* or *Squirm* for the C64 because they're my favourite games. I'd also like to say that your adventure and public domain sections are rubbish.

Hope you can help

Derek Ley, Pentreochwyh, Swansea

• Sorry, but I've not seen or heard anything of the two games you mentioned — although I must say that their names do lend themselves to a 'ones to avoid' category or two. Okay, so you think our adventure and PD sections are rubbish, but you didn't say why. Constructive criticism is always welcome, but we do like to know where we're going wrong — if you don't tell us, we can't do anything about it, hmmm? Oh, congratulations — your signature is the worst one we've seen other than Miles'. To come even close is an achievement and a half. LM

"All good things must come to an end". Who says it who said that? Whoever did deserves to have a letter not showed up their nose, as it's a particularly depressing thought. Sure, it's the end of *Maxwell's Mailbag* for this month, but next issue's letter-orientated section is more weeks away from being with you. And as my father said, 'the anticipation of having something is almost as pleasurable as the actual thing' — obviously, that doesn't apply to D&S's, so I'd better stop my drivelling now. Send your letters — be they big, small or oddly-shaped — to *Maxwell's Mailbag*, Imageworks, COMMODORE FORCE, Ludlow, Shropshire SY8 1JW.



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DIARY OF A

Okay, so the Diary of a Game feature's been going for a while now, but this is most definitely a first — a double-game diary. Jon Wells — programmer of *Sceptre of Sorcery* and our very own *Easy Lives* — is currently writing two extremely excellent budget games — *Escape From Arth*, and *City Bomber*. Perhaps we'd better let him tell you about it himself...

This particular diary's slightly different to the usual. Why? Well, simply because it'll feature two games instead of one — phew! All programming, graphics and sound effects are being done by myself — Jon — with music by Paul Hannay, also known as The Feekzoid.

I always start my games with the graphics as er... what am I saying, I haven't even explained the initial ideas yet! So, first we start with the game's design and ideas. One of these, *Escape From Arth*, is already half-completed, the other's *City Bomber* which we're just starting.

Arth is a run-around flick-screen shoot-'em-up set in a maze from which you must find means of escape, before the planet explodes. You take control of two different robots called Veto and Veti. *City Bomber*, on the other hand, is a horizontally scrolling bomb-'em-up. The idea of this (if you haven't already guessed) is to destroy the cities on progressively tricky levels. The neat things about this one is that it'll include simultaneous two-player

action, with fast parallax scrolling and featuring loads of new colours never before seen on a C64!

Arth is flick scrolling, with each screen near full size. There are going to be over 50 screens altogether, and at that size I just can't plunk them in the memory one after the other, as I'd only be able to fit about 62 screens into 64k — what a waste of memory. No, instead a screen editor is in order; so each screen can be compacted or retrieved from memory.



This is where the first part of the programming came in, to create an object editor. This little baby enables us to make the different pieces of background graphics needed to build up each screen, trees, doors, buildings etc. Each one can then be stored separately in memory. I use Dete's Action Replay to do all my coding on. 'Aaarrhhhh!' I hear you mumble, but seriously, a lot of programmers seem to criticise the old Action Replay, saying it's almost impossible to code with. Sure it's difficult at first, but once you get to grips with it you can produce stuff pretty quickly, believe me!

Anyway, where was I... oh that's it — at this point I could start on some background graphics to test the editor, I always do the graphics 'n' sprites on Firebird's Graphic Editor, as this allows you to test them on-screen. Once I'd done a few test graphics I tried them in the editor and everything worked fine. Now I must do the actual Screen Editor. This allows us to plot each object on a defined screen, building the picture bit by bit just like in Rainbow (though personally I don't watch it!). You know — the part where a sketch is made with big chunks of...

Once a screen is made you can store it with the touch of a button. The editor took a couple of weeks to construct but it's all finished now, and was



well worth it! One good thing that's come out of all this is that I can use it with future games — good eh? The background graphics have been drawn, albeit roughly at the moment — I'll update them later. Some graphics include large transformers and various other electrical pipelines which should, hopefully, look quite neat ones updated. Using the editor to build the backdrops was a doddle, and a lot quicker than by hand — all were completed in two four hour sprints over the keyboard. And that's not all — memory-wise, the screens only take up about 6k and remember, there's well over 50!

Vote Sprite for President...

I've now started on the sprites for *Arth*. These are comprised of the 'Z' robots. Vote the male robot and Veti the girl! The basic frames of each robot are the same, apart from Veti's head, sporting long flowing hair as she runs. One problem I had was with shooting. When the player fires a laser normally, it zooms straight across the screen, but if you just happen to be aiming upward then it needs to bend into a 45-degree angle as it goes. For this I had to construct two laser style sprites — the first



• *Escape From Arth*, though why you should want to I don't know — nice, blue sky and what an attractive tree.



GAMES?

with left and right fire, the second with up left and up right.

And now for the enemies — after all, what's a game without the enemies! I had a few ideas for these, but for the moment I've opted for the following: Robot droid (Ground mover), Robot ball (bouncy bouncy!), RFO 1 (Low flyer) and RFO 2 (High flyer). The Robot Objects will also be able to fire random twist missiles, so with these in mind I set to work creating them!

Now that the majority of sprites and



backgrounds are completed it's time to start putting things together. The main part's the screen and player detection routines — the controls go something like this: joystick left and right to move, down to enter a passageway and up to shoot beam laser. Also if you push up and left or right when you fire, the laser will bend and zoom upwards.



The on-screen collisions come next as each screen must be linked together and we don't want the player walking through impassable walls now, do we? Once this is over the fun begins. It's all starting to take shape now, and getting more playable. I've put the baddies in but at the moment they re-appear when you leave and re-enter the room — a random enemy routine is needed to sort this out. This will be programmed in later!

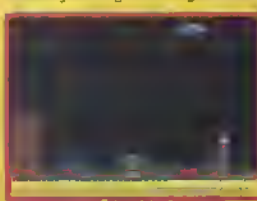
Enough of Arth for now — I think it's about time I got started on some *City Bomber* work!



Get Bombed...

As this is a horizontal scroller, a new style or editor is needed. Each city will be at least six screens in length and one high, so bearing this in mind I've come up with a cunning idea! I could build 30 levels out of five normal levels of scrolling memory. The first five levels would then be one screen long, levels six to ten would be the same as the first five but two screens and so on, up to six screens. Using this technique I can make hundreds of levels in small amounts of memory!

First I must program the new Object Editor only this time there's going to be a restriction on the size of each object. At the most buildings and other happenings can be no bigger than an axe characters grid, but bigger buildings can always be linked together with two or more eight-by-eight objects. More fast graphics were then drawn to utilise this before sorting out the scrolling routines. Eventually I got a small demo up and running. Each character can be literally any colour, as the scroller scrolls the character colours as well. The screen is now updated every 50th of a second, with all scrolling intact and the scroll data being grabbed from a large wide window stored in memory. The good thing about using this effect is



that I can make the screen scroll at almost any speed. As an example, most games run at 1 or 2 pixels every 50th — as in SEUCK

■ Bombs away! I'm not too sure about the ethical angle on this one — bombing civilians in their homes. Still, it's fun!

games — but in *City Bomber* I can make it scroll at 8, 16, 64, 128 pixels every 50th or even faster if I wish! At these speeds, the screen scrolls so fast that you can't even keep up with it! Well, I couldn't anyway.

It won't surprise you then if I tell you that there's definitely going to be a speed option on the title screen so everybody can witness the incredible

pace...

Remember those new colours I was on about earlier? The C64 has 16 colours normally, right? Wrong! Using a special technique which I call RASTER COLOUR MIXING (RCM for short), you can have a possible 58 different colours (yes, 58!) on screen at once, and in any character colour, in *City Bomber*, though, we'll only be using about 30. Now the scrolling's sorted it's time to work on the parallax effects. These consist of the mountains, trees, hills and buildings which form the landscape behind the main city, but scrolling slightly slower. After this are the clouds of daytime and stars for night. Altogether there's now five layers of parallax and it looks quite neat.

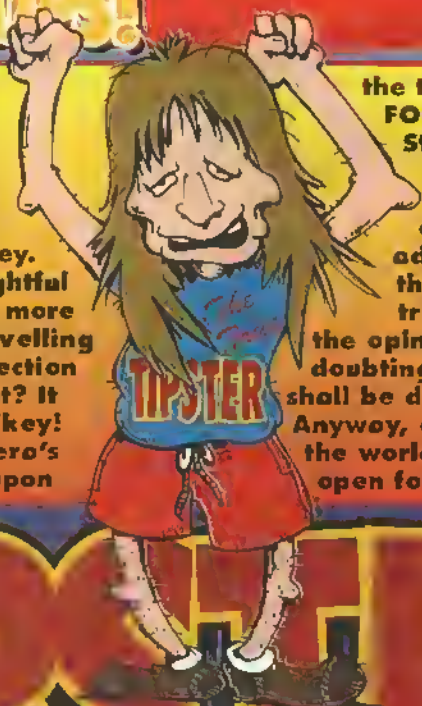


The top and bottom borders have also been opened with the score and time limits at the bottom, and the rest of the play area (which now looks huge) at the top. I've just managed to finish the first player's ship and it's all moving about fine!

Stay tuned until next month, when we'll see the completion of the *City Bomber* landscape editor, the in game music/effects and maybe, just maybe, the completion of both games (And a coverpage demo or two, don't you say!)

**HEEEELLOOOOOO
EVERYBODY** — 'Tis me, the
new Tipster. For verily I
have vanquished the foul
beast Hayward and now sit
proud upon his throne,
master of all the tips I survey.
How proud to occupy my rightful
place at last. It seems little more
than a month ago I sat marvelling
at the thought of a whole section
to myself and ye know what? It
was only a month ago — crikey!

So a new era's
downed upon



THE
TIPSTER!
DAN DARE



SUBURBAN

KEYCARDS

Collect cards to open doors. Don't worry about getting them in any order, as any card unlocks any door. You can carry as many as you want.



BOMB (Primed)

When activated the bomb will look like this.

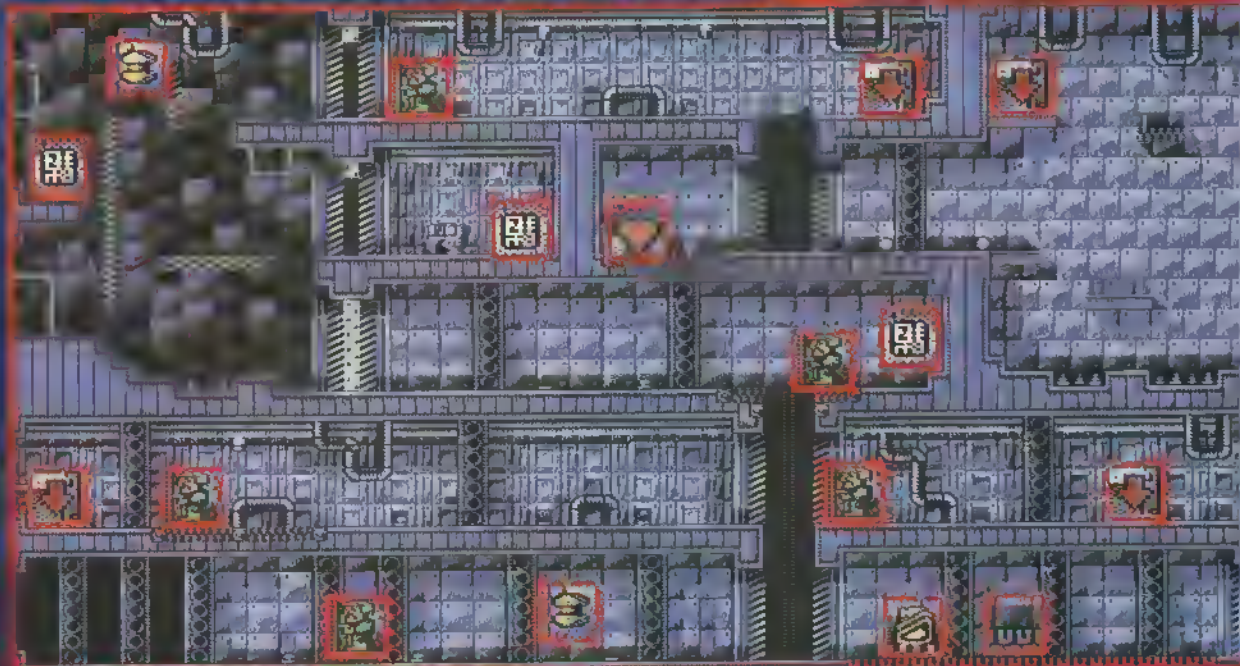


BOMB (Unprimed)

To open the level exit you need to find all seven detonators (shown by a red arrow). Walk over them to activate them.



Love him or loathe him, you just can't ignore that infernal Hulk of Hogan. Loud, brash, arrogant and peroxide blond — but enough about James. Allow your eyes to gaze upon this juicy map and solution to level two.



ROBOT TRACK

Patrol robots can only travel on these tracks. Unfortunately the Hulkster's feet stick to it, meaning he's unable to jump. Wait at the edge until the robot turns its back, then jump behind it and do a leg sweep.



ROBOTS

Use the slide kick to dispose of these. They need a special track to run on and won't sense you until you stand on it.



ENERGY

Tops your energy bar up to maximum.



COMMANDO

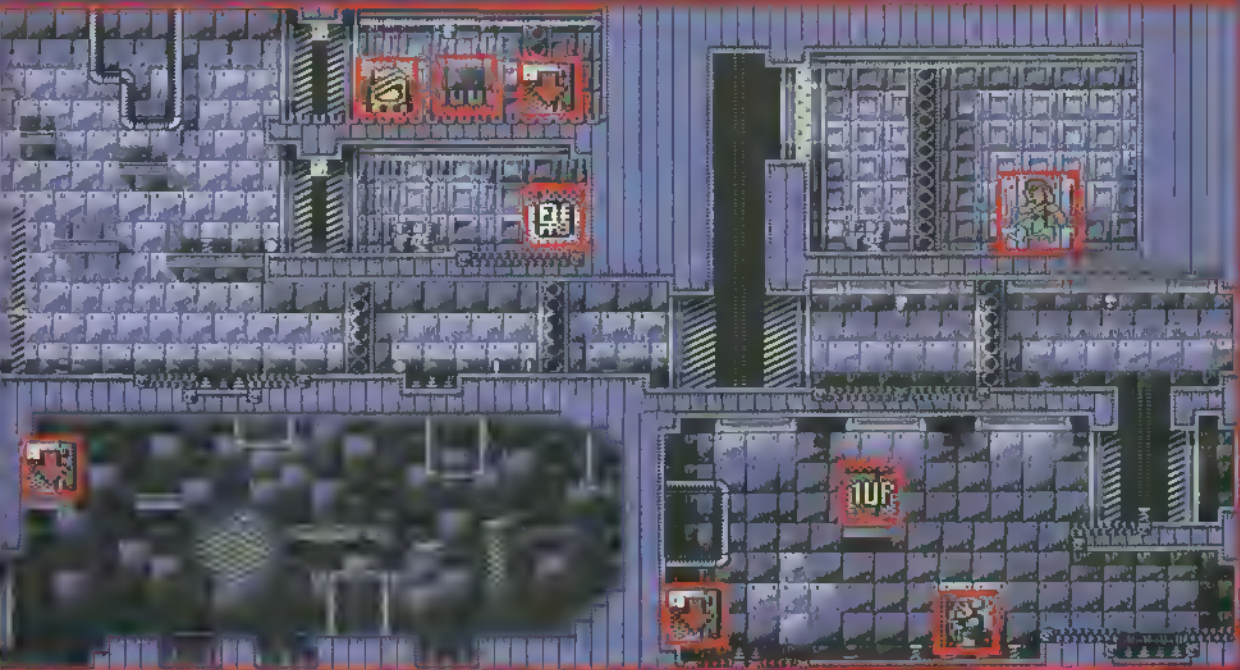
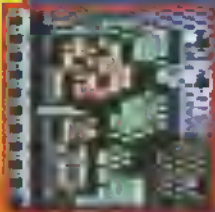
FLYING ROBOTS

Bearing a startling resemblance to hamburgers, these little nasties are best avoided. Once scrolled off screen they won't follow you unless you retrace your steps. Just remember where they are.



GUARDS

One punch will do 'em, but move quickly. They have multi-directional fire and an annoying ability to shoot through walls and closed doors.



END OF LEVEL GUARDIAN

Your final adversary. To beat him, wait until he jumps then jump away, duck down and use the leg sweep. Only punch in an emergency as it leaves you open to attack.



EXTRA LIFE

Answers on a postcard, please...



REEL RESET

Not only do we give you the hottest freebies in the known universe, but we help you to beat 'em as well, or at least Atherton's Carl Dickinson does. Here are his selection of reset pokes for some of those cover classics — Carl, you're on...

Holiday <None>Cops (RA7)

POKE 21600, 98 Indestructibility
SYS 16965

Artura (RA9)
POKE 53070, 96 Infinita energy
SYS 32768

Blue Encounter (RA12)
POKE 21600, 96 Indestructibility
SYS 16965

POKE 20224, 96 Infinite energy
POKE 36841, 173
SYS 49152

8rlx (RA14)
POKE 7111 173 Infinite balls
SYS 4300

Tracer (RA14)	Lives
POKE 4552, 173	Freeze time
POKE 4680, 173	Indestructibility
POKE 5464, 0	
GYS 28672	

The next lot require the presence of an action key available, inserted in your machine.

PO8E 596	96	highest activity
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Park Patrol (RA1	Infinite lives
POKE 5E474 17.1	

Manipago RA15
POKE 400 4 B6

Blues Brothers (RA17)
P.D.F. 113 1 1 Unit 1v

FRUITBANK

Anyone with a reset cart might like to try this out. It's not a cheat — just reset and type SYS 33400, then sit back and watch...



MYTH

Hello Patrick Needham from Shrewsbury, hi, alright? Yes everybody, it's the turn of the great Pat as he shares with us his cheat for that most mysterious of arcade adventures — *Myth*. From the Norse Legends levels onwards, hit keys [A] and [?] simultaneously for full weapon.



NEW SHIFT

It's not about giving you a gift. It's about giving you a chance to win a gift. That's why we're giving away a \$1000 gift certificate to the winner of our contest. And here are the rules:

- [illegible]



ROBOCOP 2

Sadly the failure of C64 cartridge leaves us merely pondering what could have been. Instead, the format spawned one or two games—not least *RoboCop 2*.

Challenger's got the game well 'n' good, but he's looking for lesser mortals out there who can take him to the left edge of his comfort zone.



Today the tips section, tomorrow the world! Hayward's column is truly mine, that and all it contains. Of course the process of domination weaves a meandering course of which only time will tell. Nevertheless, one day **COMMODORE FORCE** shall be in my hands and then... who knows? James is too powerful at the moment but I mean to bring down his tyranny from within — tips are merely the beginning. To aid in my preparation I urge you, my followers, help me grow strong. Bestow upon me ravenous hordes of tips that I might grasp my destiny. Pledge your allegiance to: The True Tipster, **COMMODORE FORCE**, Import Magazines, Ludlow, Shropshire SY8 1JW. Now where's that snivelling Mongram character hiding...?

NEW ZEALAND STORY

New York City's 1990s-era public housing program, the New York City Housing Corporation (NYCHC), has been a model of success for other cities. The NYCHC has been able to maintain a high level of tenant satisfaction, while also achieving a high level of financial self-sufficiency. The NYCHC has been able to do this by implementing a number of innovative programs, including the "New York City Housing Corporation's Tenant Satisfaction Survey" and the "New York City Housing Corporation's Financial Self-Sufficiency Program".

You've heard of Shakespeare's Twelfth Night — well this is **COMMODORE FORCE's** Twelfth Issue! Yes, that's 12 months trouble-shooting and problem-solving for all of our loyal readers. Let's get those mail sacks emptied and those bad tempers put away... help has arrived!

THE MIGHTY BRIAN!

G'DAY SPORT

Dear Brian,

1) How can I find cheats for infinite time and energy on games with my Action Replay cart? If I can't, how does the Tipster find them? What hardware/software does he use?

2) Is it possible to insert your own sprites into games and delete the original ones?

Rob Green, Victoria, Australia

● Let's deal with these problems one at a time...

1) You can use the **POKEFINDER** of your Action Replay cart, if the time or energy is a value less than 255, follow this procedure.

- i) Start the game
- ii) Press the cart button, enter **POKEFINDER** and type in the value of the time/energy as a number.
- iii) Resume the game, lose some time or energy
- iv) Re-enter **POKEFINDER**, and enter the new value of the time/energy.
- v) If everything's gone to plan, you should now have infinite time/energy.

What the cartridge does is search the memory for all locations containing the

current value (which you entered) and the locations that change it. It also

keeps a list of the places it's found. When you go back a second time, it checks that list of locations to see if they hold the new value. If one does, then it alters the instructions to stop it decreasing the value of time/energy and tells you a location in memory to change the next time you want to cheat. By the way, the Tipster gets his **POKEs** by getting well-meaning readers to do all his work for him, before sitting back and taking all the credit!

2) I could tell you, but it'd be breaking copyright rules (really? — Ed). It seems unfair too, after programmers and graphic artists have sweated blood to bring you those spirals...

Brian

LOADSAPROBLEMS!

Dear Brian,

How do I display a screen while a main program is being loaded in BASIC? What lines do I need to add to the program? I have programs on tape — will I need to re-number them?

AR Hill, Luton, Bedfordshire

■ This is a common question, so a more advanced version of this technique will be appearing in machine code in the near future.

Add the following lines to a BASIC program — it will display a message anywhere on screen other than the top six lines.

```
65000
PRINT [HOME]LOAD"CHRS(34)"PROGRAM"CH
RS(34)".1"
```

```
65010
POKE631,19:POKE632,13
65020
POKE631,82:POKE632,117:PO
KE633,13
```

```
65030 POKE198,5:END
```

After displaying the screen, **GOTO 65000** will load 'program' from tape to **RUN** it automatically by storing characters in the keyboard buffer. Clever isn't it? Make sure that **PLAY** is pressed before you **GOTO** this routine or it won't work properly.

Brian

A DISK-USSION OF A SERIOUS NATURE

ALL THE INFORMATION YOU NEED TO KNOW ABOUT THE NEW DISK-DRIVE SYSTEMS FOR THE COMMODORE 64 IS HERE. FROM THE NEW 5.25" DISK-DRIVE SYSTEMS TO THE NEW 3.5" DISK-DRIVE SYSTEMS, WE COVER IT ALL. ALSO, WE TALK ABOUT THE NEW DISK-DRIVE SYSTEMS FOR THE COMMODORE 64 PLUS. IF YOU WANT TO KNOW MORE ABOUT THE NEW DISK-DRIVE SYSTEMS, THEN READ ON.

1) The new 5.25" disk-drive systems for the Commodore 64 are the most popular. They are available in two versions: the 5.25" disk-drive system for the Commodore 64 and the 5.25" disk-drive system for the Commodore 64 Plus. Both systems are available in two versions: the 5.25" disk-drive system for the Commodore 64 and the 5.25" disk-drive system for the Commodore 64 Plus.

You'll never tame me, heh heh heh!



MACHINE CODE DOWN UNDER



Dear Brian,

1) My dad bought the Power Cartridge — it has a monitor. Is this a suitable assembler to write games?

2) How long would you think it would take for a 14-year-old to learn machine code?

3) How do you expect overseas readers to enclose a self-addressed envelope? Send a cheque for 33p (haha)?

Johnathan Robertson, Victoria, Australia

1) You can use the A (assemble) function of the monitor, but to write a game it's not

suitable. For example, Lemmings takes up over 5000 lines of machine code and would take you hours to enter and check. A proper assembler (though difficult to get hold of) is essential. You could even buy a cross-development system from a games company....

2) Long enough to shorten your temper, and yet short enough to keep you focussed on your goal... it just depends who you are, and how much you want to learn.

3) Ever heard of International Reply Coupon or Postage-Paid Envelopes? Ask at your local post office.

Brian

THE NINJA WITH PROBLEMS

Dear Prof,

I've written to you because I want to solve my biggest programming problem ever! I'm making a split-screen routine with data lines, and a raster colour routine with data lines.

The problem is that it reads in the wrong DATA and gives a DATA error. Please help me!

I liked that Music Cassette listing in Issue Eight. Do you know of a program that would give better quality? Would a sound sampler give better quality?

Do you know of any routine to format more blocks on disk?

Kay 'The Ninja' Arnesen, Norway.

Take a deep breath, open your ears and listen carefully....

Arrange your DATA lines in the following

Don't panic — I'll be back next month with more fun and informative ways to use your Commodore. But no hacking into mainframes and starting global thermonuclear war while I'm away, please. Write to me at:



order;

DATA lines for the split-screen

DATA for the colour

routine

DATA for other things (sprites etc.)

Now, before you READ any DATA, enter a line that says RESTORE (not the key!). This will tell the computer to point to the first item of DATA.

Now use a FOR NEXT loop to READ in the split-screen data, eg:

FOR T=0 TO amount of data

READ U

POKE location+T,U

NEXT

Repeat this for the colour routine and the other DATA, reading in exactly the right amount of DATA for each. This should cause you no further problems — every time you run the program it'll read in the

FILATELI AR EN TERVLIG HOBBY

Dear Prof,

1) Can I use my C64 and modem to send faxes?

2) How do you display something while

3) Can I connect my C64 to a portable

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As the year winds down and the number of shopping days to Christmas reduces, the man in the turban is back! It's Professor Brian Strain with another tutorial on the way to understanding how games are written. Moving stuff deep (or not) into sprites, it's time to wrap up that topic and proceed into something else...

THE SPRITE DATA POINTERS

We've mentioned the sprite data pointer in previous lessons. It tells the computer where in memory to look for the numbers that make up a sprite. Of course, with eight sprites there are eight locations. However, because of the VIC chip's design we can only 'look' at 16k of memory at a time when we're dealing with graphics. The sprite data pointers are located after the screen memory (which can be moved). For now, we'll deal with how to locate your sprite's data when you first turn on (and without hundreds of extra POKES).

When you first turn on, the VIC chip is 'looking' at the first 16k of memory from locations 0 to 16384. Screen memory is at 1024 to 2023 (a total of 1000 bytes), and the character set is built in one.

To find the sprite data pointers, take the start of screen memory, add 1016 and you'll find the address of the first pointer.

For example, screen memory is at 1024, sprite 0's pointer 0 (for sprite 0) is at 1024+1016, location 2040.

Now work out what numbers to put into the data pointer. You now don't know the address you store

THE GAME

the data for a sprite's image. This is particularly important if you're animating sprites, caused by changing the data pointer to show a series of images (in the same way as television and films are a series of images). Again, here is an example of working out where the sprite data is in memory.

Suppose you have three sprites you wish to display, each of them a single 'frame'.

The data for the first is stored at 12288, the second at 12352 and the third at 12416.

Sprite 0 needs to be the first sprite in memory, so we'll need to POKE location 2040.

Sprites are stored as a block of 64 bytes in memory (the 64th byte is not displayed), so we can use the formula:

NM=location divided by 64 where NM will be the number to POKE into 2040.

So, we poke 2040, 12288/64 which equals 192.

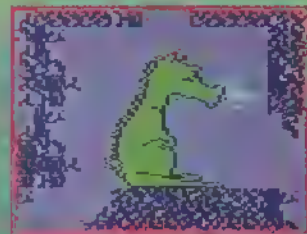
As the next two sprites are stored consequently in memory, we know the second will be NM=193 and the third NM=194 (since they are 64 and 128 bytes onwards respectively, increasing NM by 1 and 2).

We could animate 0 by setting a loop like this.

```
100 FOR T=192 TO 194
110 POKE 2040, T
120 FOR DELAY=1 TO 100 NEXT DELAY
130 NEXT T
140 GOTO 100
```

This would change sprite 0 from the first to the second to the third image and repeat that cycle. I'll leave you to work out how to program an animation where you go forward and then backward through a series of 'frames'.

The sprite data locations can only hold a number between 0 and 255. This means there are 256 possible sprite 'frames' between locations 0 and



16384. However, the computer uses much of this area in store BASIC programs and important

information (including the screen). I suggest you NEVER store sprites below 8192 (a sprite data pointer number of 128). Even short BASIC programs can go over this, so be careful!

If you only need one or two sprites at a time, you can store them in the CASSETTE BUFFER. This is located at locations 8288 to 1019, giving room for 4 sprites (POKE the sprite data pointer with 13, 14, 15 or 16). But this area will be overwritten if you erase tape or disk, so don't use it if you'll be doing any loading or saving.

KEEPING IN CHARACTER

So far in this series (and if you're not a regular reader, save up for the back issues!) I've covered sprites that appear in front (and occasionally behind and around) the background. But there's been very little mention of the background itself. If you've grasped and understood a lot of the information on designing and changing sprites, it will come in handy for designing and changing CHARACTERS. But first, there are some important modes to discuss. Let's start at the beginning with text mode. When you switch on your C64/C64C/C128 or whatever, you get a message written in upper-case characters on a 40 column by 25 row screen. This is text (or sometimes called business) mode. Using the ROM character set is the technical term for an area of memory that contains the bytes that make up all the available characters, which includes basic graphic symbols.

The next step is to press Commodore and SHIFT. This turns your machine into lower case mode. Now you have less graphics but more readable text. If you want to stop people switching between the 2 modes, you can use PRINT CHR\$(8) to disable and PRINT CHR\$(9) to enable the Commodore and shift keypress. That will stop them messing up your display, and is an important thing to remember when you define your own characters, a task we'll look at in detail in the future.

Now if you've seen the ROM character set you will see that all the characters are fixed at 8 pixels across by 8 pixels down. Like sprites, we have the option of having the horizontal resolution to provide MULTICOLOUR MODE. You can even display multicolour and monochrome (single-colour) characters on the same screen. There are more restrictions than with sprites, but more on that next month.

Oh, and in case you thought that Commodore didn't provided you with enough ways to use characters, you also have



THE GURU

EXTENDED BACKGROUND MODE. This limits you to 64 characters, but each can be displayed in a different character colour and one of 4 background colours, which compares with multicolour mode's fixed background colour plus two fixed multicolours plus one of eight character colours.

Finally, you can re-define the characters so you plot more than one at a time to make up an image. For example, you can create a character set that's twice as wide and twice as high as the built-in one, so to print a letter 'A' you need to print four characters in a square. This is the basic method you need to create backgrounds for games, making up large 'pieces' of the background from several characters, and employing a simple method called 'blocks' helps save memory and time...



LET'S GET PRACTICAL

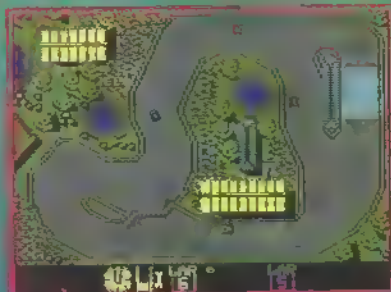
Rather than spend hours on theory, here's a small program for you to try out. It's a simple character editor and it allows you to edit an 8 by 8 block on-screen, and turns it into the DATA you'll need to POKE into memory. I'll give you the program next month to turn the DATA into actual characters, but for now I'd like to thank Tony 'The Penguin' Cline for sending the original program, which I've changed slightly to give a better idea of what's happening. The instructions are included in the program, so type it in and RUN it, and get designing some monochrome characters.



```

10 POKE646,15.PRINTCHR$(147)
20 CLR:POKE53281,0:POKE53280,0
30 FORT=1T08.DS(Y)="000":CR(Y)=0:NEXT
40 GOSUB370
50 FORI=0T062:POKE832+I,0:NEXTI
60 POKE832,255:POKE853,255
70 FORK=836T0850STEP3:POKEK,129.
NEXTK
80 POKE2040,13:POKE53287,1:POKE53296,1
90 POKE53269,1:POKE211,0:POKE214,12:
SYS58732
100 PRINT"O:SETPIXEL W:CLEAR PIXEL
C:CLEAR CHAR"
110 FORD=1T08:FORJ=1T08
120 POKE1024+(D*40)+J,46:NEXTJ, D
130 FORY=1T08:GOSUB340:NEXTY
140 X=1:Y=1
150 IFX>8 THEN X=8
160 IFX<1 THEN X=1
170 IFY>8 THEN Y=8
180 IFY<1 THEN Y=1
190 POKE53248,24+(X*8):POKE53249,50
+(Y*8)
200 GETAS:IFAS="":THEN200
210 A=ASC(AS)
220 IFA=157 THEN X=X+1:GOTO150
230 IFA=29 THEN X=X+1:GOTO150
240 IFA=145 THEN Y=Y+1:GOTO150
250 IFA=17 THEN Y=Y+1:GOTO150
260 IFA="O" THEN 300
270 IFA="W" THEN 320

```



```

280 IFA$="C" THEN 10
290 GOTO200
300 POKE1024+(40*Y)+X,160
310 CR(Y)=CR(Y)OR(8-X):GOTO340
320 POKE1024+(40*Y)+X,46
330 CR(Y)=CR(Y)AND(255-(2(8-X)))
340 DS(Y)=MDS(STAS(CR(Y)),
2.LEN(STAS(CR(Y)))-1)
350 IFLEN(DS(Y))<3THEN
DS(Y)="O"+DS(Y):GOTO350
360 POKE211,10:POKE214,Y:SYS58732
PRINTDS(Y):GOTO150
370 FORT=1T08:POKE211,10:POKE214,T:
SYS58732:PRINTDS(Y)
380 NEXTT:RETURN

```



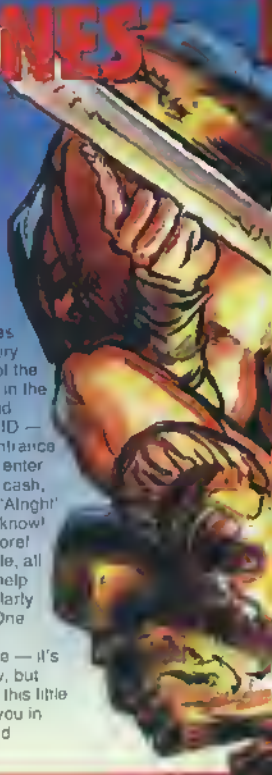
Yes, it's the time to pack away my turban for another month. Next month I'll delve deeper (my favourite phrase again) into the mysteries of character sets. Beat the rush, post early, send your suggestions, questions or examples of your work to: The GamesGuru, Commodore Forum, Impact magazine, Ludlow, Shropshire SY8 1JW. It just remains for me to say those immortal words: **DON'T DRINK AND EAT TOO MUCH, YOU'LL FALL ASLEEP!**

GRUNTS

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DAVY JONES' LOCKER

DJL is expertly written and, as with all River Adventures, bug-free — it's a real joy to play. It's actually been around for quite some time now, but has lost none of its charm — no C64 adventurer should be without this little gem in their collection. If it makes old Bash chuckle then it'll have you in hysterics, as well as giving many an enjoyable hour of fun and head scratching.



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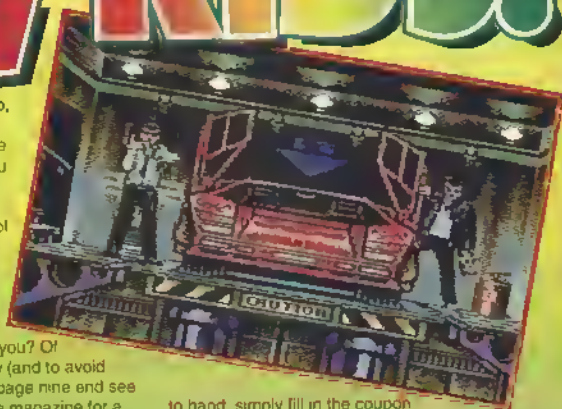


SEE YOU NEXT MONTH, KIDS!

Pheewee — another issue finally comes to an end. There's no rest for the wicked, though. No sooner do we finish one episode of **COMMODORE FORCE**, than we're inundated with stuff for the next. There's more tips to compile, new letters to answer and articles by the bucket-load. Not that we're complaining — we thrive on the pressure. Unlike those slackers at *Nat West* (are we sure about this — Ed) it certainly is work work for the **COMMODORE FORCE** gang. Sometimes it seems there's simply not enough days in the month — February being a prime example, but that aside you can't really complain about the way our year is arranged. January at the start, Christmas at the end and a big fat summer in between.

Still, we s'pose you're now dying to know what delights await for our 13th issue — unlucky for you if you don't buy it. Well, after our top 100 C64

games last ish, it's now your turn. There were one or two somewhat controversial entries so, compiled from the mountains of surveys you sent in, we'll have the definitive top 100 according to you lot. Then, of course, they'll be all the usual waffle, more stunning *Reel Action*, and a large helping of oddness for good measure. **COMMODORE FORCE** #13 hits the shelves on 18 November, but get in early — they'll be selling like hot pyjamas and you wouldn't want to miss out, would you? Of course you wouldn't! Alternatively (and to avoid possible disappointment) turn to page nine and see how to subscribe to your favourite magazine for a whole year. If, however, you don't have the readies



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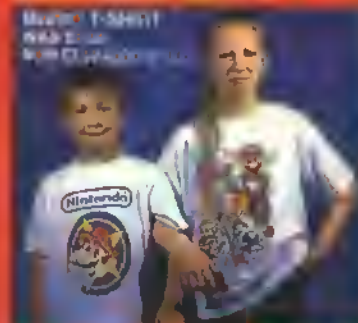


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